NUS CORPORATION
A Halliburton Company

FILE COPY
02-8606-23-PA

POTENTIAL HAZARDOUS WASTE SITE

PRELIMINARY ASSESSMENT

COMPLETED

Weitsman Salvage Yard/
Tioga Castings Facility
Site Name
15 West Main Street (Route 17-C)
Owego, New York 13827
Address

NY D000511683
EPA Site ID Number

02-8606-23
TDD Number

Date of Site Visit: Off-site Reconnaissance 7/8/86

SITE DESCRIPTION

The Weitsman Salvage Yard is an active salvage operation owned and operated by Harold (Fred) Weitsman. The Weitsman Salvage Yard is also known as Tioga Castings Facility. The Weitsman Property occupies a 7.5 acre tract on West Main Street in the Village of Owego. Facility operations includes the salvage and recycling of various scrap metals, junked vehicles and vehicle parts. The salvage yard served as a disposal site for industrial wastes originating at the Tioga Castings Facility in Owego, New York. Material disposed of is reported to have consisted of waste sand and chemically bonded sand molds. The bonding agent used in the sands contains phenol-formaldehyde. The exact amount disposed of is unknown. Disposal took place during the late 1970's and ceased in March 1979.

PRIORITY FOR FURTHER ACTION: High ___ Medium X Low ___ None ___

RECOMMENDATIONS

Soil, surface and groundwater sampling should be conducted due to the unknown character and quantity of industrial wastes deposited on site. Sampling should also be conducted to better determine the extent of the phenol-formaldehyde containing sand molds which were used as fill in the salvage yard.

Sampling is needed to better characterize the possible affects these substances could have on the groundwater and surface water usage around this site.

Prepared by: Gary Bielen
of NUS Corporation

Date: 7/16/86

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D000511683

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Weitsman Salvage Yard/Tioga Castings Facility

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
15 West Main Street (Route 17-C)

03 CITY
Owego

04 STATE | 05 ZIP CODE | 06 COUNTY | 07 COUNTY CODE | 08 CONG DIST.
NY | 13827 | Tioga | 107 | 27

09 COORDINATES
LATITUDE 42 06 00.0 LONGITUDE 076 14 20.0

10 DIRECTIONS TO SITE (Starting from nearest public road)

Proceed west on Route 17-C into the Village of Owego. Route 17-C is also Main Street in Owego. Proceed to 15 West Main Street, Weitsman Salvage Yard is located just before Marvin Park which is on the right side of the road.

III. RESPONSIBLE PARTIES

01 OWNER (if known)
Harold (Fred) Weitsman

02 STREET (Business, mailing, residential)
15 West Main Street

03 CITY
Owego

04 STATE | 05 ZIP CODE | 06 TELEPHONE NUMBER
NY | 13827 | (607) 687-2969

07 OPERATOR (if known and different from owner)
Same as above

08 STREET (Business, mailing, residential)

09 CITY

10 STATE | 11 ZIP CODE | 12 TELEPHONE NUMBER

13 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE ___ B. FEDERAL: _____ (Agency name) ___ C. STATE ___ D. COUNTY ___ E. MUNICIPAL
___ F. OTHER: _____ (Specify) ___ G. UNKNOWN

14. OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

___ A. RCRA 3001 DATE RECEIVED: / / ___ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / /
X C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
X YES DATE: 10 / 18 / 85 ___ A. EPA ___ B. EPA CONTRACTOR ___ C. STATE ___ D. OTHER CONTRACTOR
___ NO ___ E. LOCAL HEALTH OFFICIAL X F. OTHER: Wehran Engineering (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
___ A. ACTIVE X B. INACTIVE ___ C. UNKNOWN

03 YEARS OF OPERATION
late 1970's / 1979 (BEGINNING / ENDING) ___ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

The bonding agent used in the chemically bonded sand molds is phenol-formaldehyde resin.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential contamination of the shallow water-bearing zone, this is where the Village of Owego draws its water. The potential also exists for contamination of Owego Creek and the Susquehanna River, which is where the irrigation intakes are located. Owego Creek is also used for recreational purposes.

IV. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste information and Part 3 - Description of Hazardous Conditions and Incidents)

X A. HIGH (Inspection required promptly) ___ B. MEDIUM (Inspection required) ___ C. LOW (Inspection on time available basis) ___ D. NONE (No further action needed. complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Diana Messina	EPA, Region II, Edison, New Jersey	(201) 321-6685

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Gary Bielen		NUS Corp.	(201) 225-6160	7 / 16/ 86

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
Ny D000511683

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- _ A. SOLID
- X B. POWDER, FINES
- _ C. SLUDGE
- _ D. OTHER: _____ (Specify)
- _ E. SLURRY
- _ F. LIQUID
- _ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS Unknown
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- _ A. TOXIC
- _ B. CORROSIVE
- _ C. RADIOACTIVE
- X D. PERSISTENT
- _ E. SOLUBLE
- _ F. INFECTIOUS
- _ G. FLAMMABLE
- _ H. IGNITABLE
- _ I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- _ K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

Unknown

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Phenol-formaldehyde	108-95-2	used as fill in savage yard	Unknown	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	N/A		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

Wehran Engineering, Preliminary Assessment Report, November 21, 1985.

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

A potential exists for contamination to the shallow water-bearing zone, from which the Village of Owego draws its water. Phenol-formaldehyde, the bonding agent in the sand molds can leach into the water-bearing zone.

01. X B. SURFACE WATER CONTAMINATION 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A potential exists because the site is in the flood plain of the Susquehanna River and can also affect Owego Creek. Phenol-formaldehyde which is the bonding agent in the sand molds deposited onsite can leach into these surrounding surface waters. No containment methods are practiced onsite.

01 X C. CONTAMINATION OF AIR 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A potential does exist due to the unknown quantities of industrial wastes deposited onsite. These unknown substances could contaminated the surrounding air.

01. D. FIRE/EXPLOSIVE CONDITIONS 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists. The sand molds which contain phenol-formaldehyde resin are not highly reactive or ignitable.

01. X E. DIRECT CONTACT 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A potential exists because the phenol-formaldehyde containing sand molds were deposited onsite as fill material to increase the level of the salvage yard. The site is still active and no containment methods are practiced so workers can come in contact with this material.

01 X F. CONTAMINATION OF SOIL 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 AREA POTENTIALLY AFFECTED: 7.5 (ACRES) 04 NARRATIVE DESCRIPTION

A potential exists because the phenol-formaldehyde containing sand molds were deposited onsite as fill material.

01. X G. DRINKING WATER CONTAMINATION 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

A potential exists because the sand molds which contain phenol-formaldehyde were deposited as fill in the low areas to increase the level of the salvage yard. These sand molds can leach into the shallow water-bearing zone from which the Village of Owego gets it water.

01 X H. WORKER EXPOSURE/INJURY 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A potential exists because the site is still active and workers can come in contact with the deposited sand molds which contain phenol-formaldehyde.

01 X I. POPULATION EXPOSURE/INJURY 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

A potential exists due to the sand molds which contain phenol-formaldehyde. These substances can leach into the shallow water-bearing zone from which the Village of Owego gets its drinking water. There are also water intakes for irrigation located in the Susquehanna River and the Owego Creek which could become contaminated and increase the number of people affected.

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X J. DAMAGE TO FLORA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

A potential exists due to the unknown quantities of industrial wastes deposited on site. These unknown substances and the lack of containment could allow runoff to occur and damage the surrounding trees and grasses.

01 X K. DAMAGE TO FAUNA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

A potential does exist because the substances found on site could leach into the Susquehanna River and the Owego Creek were various species are located.

01 X L. CONTAMINATION OF FOOD CHAIN — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

A potential does exists due to the unknown substances and their quantities which were deposited on site. These industrial wastes could runoff into the Susquehanna River and the Owego Creek and affect irrigation intakes which are used for agricultural purposes.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 — 04 NARRATIVE DESCRIPTION

A potential exists because there are no containment methods in use and the sand molds which contain phenol-formaldehyde could leach into the groundwater and adjacent surface waters. The potential for runoff of these substances is increased because of the lack of containment.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

A potential exists due to the unknown substances and quantities which were deposited as industrial wastes on site. These substances could runoff site and affect agricultural lands and residential/commercial areas.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

A potential does exist due to the close proximity of this site to the Village of Owego. The unknown substances that were deposited onsite could runoff into the sewers and/or storm drains.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

A potential does exist due to the lack of any security maintained at the site. There is easy access to the site which can lead to unauthorized dumping.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 8,500

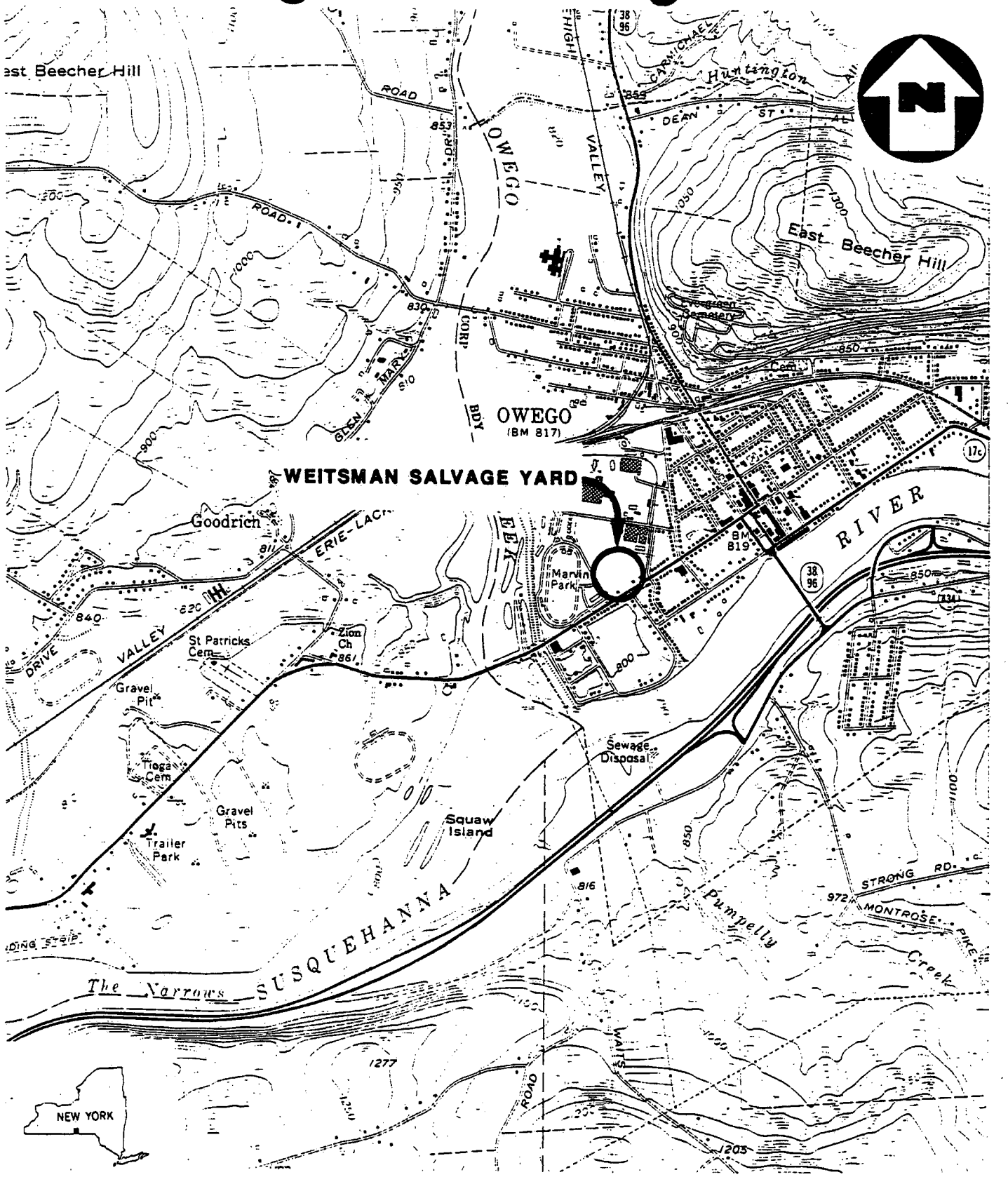
IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Wehran Engineering, Preliminary Application of the Hazard Ranking System report, November 21, 1985.
Tioga County Board of Cooperative Extension, obtained information about the population served by surface waters.
Owego Water Company, obtained information about the population served by groundwater.

APPENDIX A

MAPS AND PHOTOS



(QUAD) OWEGO, N.Y.

FIGURE 1

SITE LOCATION MAP

WEITSMAN SALVAGE YARD, OWEGO, N.Y.

SCALE: 1" = 2000'

NUS CORPORATION
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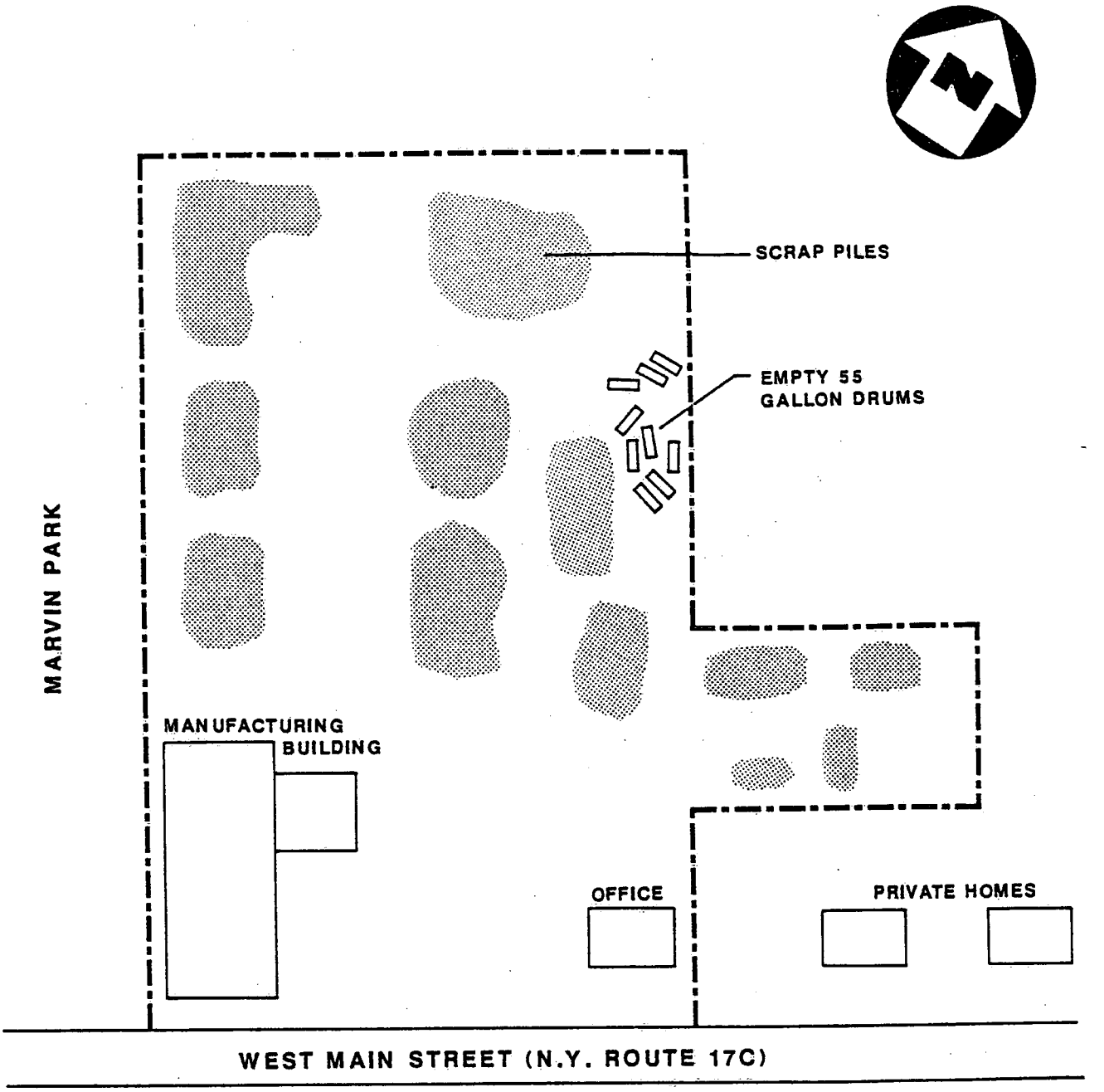


FIGURE 2

SITE MAP

WEITSMAN SALVAGE YARD, OWEGO, N.Y.

(NOT TO SCALE)

NUS CORPORATION

A Halliburton Company

WEITSMAN SALVAGE YARD/TIOGA CASTINGS FACILITY
OWEGO, NEW YORK
TDD# 02-8606-23
JULY 8, 1986

PHOTOGRAPH INDEX

WEITSMAN SALVAGE YARD/TIOGA CASTINGS FACILITY
OWEGO, NEW YORK
TDD# 02-8606-23
JULY 8, 1986

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS TAKEN BY ANDREW HOPTON

Photo Number	Description	Time
1P-1	View looking north from Main St. at the front of the building and the sign.	1730
1P-2	View looking north from Main St. showing building and new Steel Division Building.	1732
1P-3	View looking north from Main St. at machinery and scrap piles.	1735
1P-4	View looking north from Main St. at machinery and sand/gravel fill.	1737
1P-5	View looking south from bus garage lot at rear of site-scrap piles.	1750

NUS CORPORATION

WEITSMAN SALVAGE YARD/TIOGA CASTINGS FACILITY, OWEGO, NEW YORK

1P-1 July 8, 1986 1730
View looking north from Main St. at the front of the building and the sign.
Photographer: Andrew Hopton.

1P-2 July 8, 1986 1732
View looking north from Main St. showing building and new Steel Division Building.
Photogrpaher: Andrew Hopton.

WEITSMAN SALVAGE YARD/TIOGA CASTINGS FACILITY, OWEGO, NEW YORK

1P-3 July 8, 1986 1735
View looking north from Main St. at machinery and scrap piles.
Photographer: Andrew Hopton.

1P-4 July 8, 1986 1737
View looking north from Main St. at machinery and sand/gravel fill.
Photographer: Andrew Hopton.

NUS CORPORATION

WEITSMAN SALVAGE YARD/TIOGA CASTINGS FACILITY, OWEGO, NEW YORK

1P-5 July 8, 1986 1750
View looking south from bus garage lot at rear of site-scrap piles.
Photographer: Andrew Hopton.

APPENDIX B

BACKGROUND INFORMATION

Name of Current Owner of Site: Fred Weitsman

Address of Current Owner of Site: 15 West Main Street Owego, NY

Time Period Site Was Used for Hazardous Waste Disposal:

_____, 19 77 To _____, 19 79

Is site Active ☐ Inactive ☒
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☒ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action:

Status of Legal Action: None State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

Potential contamination of shallow water - bearing zone, from which the Village of Owego draws its water. The potential exists for contamination of Owego Creek.

Assessment of Health Problems:

None

Persons Completing this Form:

Kevin J. Burns

New York State Department of Environmental Conservation

Date

New York State Department of Health

Date

47-20-2 (8/77) NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

54505

PERMIT

Under the Environmental Conservation Law, Article 27, Title 7, Part 360

FACILITY NO. 1705

EXPIRATION DATE April 30, 1984

☐ CONSTRUCTION ☐ INITIAL ISSUE ☐ REISSUANCE

☒ OPERATION ☐ RENEWAL ☐ MODIFICATION

PERMIT ISSUED TO	ADDRESS OF PERMITTEE	TELEPHONE NO.
Tioga Casting Facilities	1 Foundry Street, Owego, N.Y. 13827	(607) 687-1830

LOCATION OF PROJECT Town	County	Environmental Conservation Regional Office
Owego (V)	Tioga	Region 7 - Binghamton

DESCRIPTION OF PROJECT: Disposal Site for Foundry Wastes

ON-SITE SUPERVISOR: John Sweet

GENERAL CONDITIONS

1. The permittee shall file in the office of the Environmental Conservation Region specified above, a notice on intention to commence work at least 48 hours in advance of the time of commencement and shall also notify said office promptly in writing of the completion of the work.

2. The permitted work shall be subject to inspection by an authorized representative of the Department of Environmental Conservation who may order the work suspended if the public interest so requires.

3. As a condition of the issuance of this permit, the applicant has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from the said project.

4. All work carried out under this permit shall conform to the approved plans and specifications. Any amendments must be approved by the Department of Environmental Conservation prior to their implementation.

5. The permittee is responsible for obtaining any other permits, approvals, easements and rights-of-way which may be required for this project.

6. By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with Part 360 and the special conditions. Any variances granted by the Department of Environmental Conservation to Part 360 must be in writing and attached hereto.

SPECIAL CONDITIONS

1. The site shall be used only for the disposal of industrial wastes generated at Tioga Castings. Such wastes will include sand, slag, and dust from the air pollution control equipment.

2. General refuse from the plant such as paper, cardboard, etc., shall be disposed of off-site at a sanitary landfill.

3. Tioga Casting shall take steps to control any air pollution caused by the operation of the site. Such steps shall include covering the site with earthen cover or watering during dry periods, if necessary.

4. The monitoring well at the site will be sampled semi-annually for the following parameters: pH, Iron, Zinc, Copper, Cadmium, Lead Chromium (Total and +6) Boron, Phenols The results will be submitted upon completion to the Binghamton DEC Office.

5. All filling slopes at the site must be maintained at a slope of less than 3 to 1 gradient.

ISSUE DATE	ISSUING OFFICER	SIGNATURE
12/12/81	[illegible]	X [illegible]

REGIONAL OFFICE

Region 7, Environmental Quality Unit
7481 Henry Clay Boulevard, Liverpool, NY 13088
(315) 473-8305

November 21, 1980

Tioga Casting Facilities
1 Foundry Street
Owego, NY 13827

Attn: Donald Rogers

Re: Industrial Waste Disposal Site Y54505

Gentlemen:

The existing Part 360 of the State Environmental Conservation Law and the Federal Resource Conservation and Recovery Act (RCRA) both mandate sampling of groundwater to determine possible contamination from landfilling activities. The attached memo outlines the requirement for these monitoring wells. Existing wells can be used if they are in the immediate area of the landfill and in the proper locations (upgradient and downgradient).

Sampling of the monitoring wells should be done quarterly and the results submitted to this office. Please contact this office to discuss which chemical parameters would be appropriate for sampling before a monitoring program is begun.

Please note that the monitoring wells and sampling plan will be required as conditions to operate at the time current permits are renewed.

If you have any questions, please call this office at 315-473-8305.

Very truly yours,

Charles J. Branagh, P.E.
Senior Sanitary Engineer
Solid Waste Management

Attach.

cc: L. Lepak

File: Tioga Castings

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Gary Marsh -Region 8 Avon
FROM: L. Lepak - Region 7 Kirkwood
SUBJECT: Tioga Casting Facility Foundry Waste

DATE: February 12, 1985

I have attached recent analysis results on the Tioga Casting Facility foundry sand and slag for your information. I have also included letters our Region has written to Landstrom Landfill, reviewing our approval for landfill disposal of the waste.

As I explained to Dixson, the facility's foundry sand is currently being disposed of at the Seneca Meadows Landfill as part of the Tioga County solid waste stream going to the site. Our files contain numerous historic sample results on the foundry sand. We have never noted any problem with the sand passing E.P. toxicity levels. The results also show that the slag is acceptable for landfill disposal.

Dixson reviewed this matter with you and told me that you did not see a problem with such disposal at Seneca Meadows. Contact me if you have any questions.

L. Lepak
L. Lepak

LTL:kr

cc: S. Lackey
C. Rice

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: _____

Site Code: 754002

Name of Site: Weitsman Salvage Yard Region: 7

County: Tioga Town/City Owego

Street Address 15 West Main Street

Status of Site Narrative:

The Weitsman Property is an active salvage operation owned and operated by Harold (Fred) Weitsman.

The salvage yard served as a disposal site for industrial wastes originating at the Tioga Casting facility in Owego, New York. Material disposed of is reported to have consisted of waste sand and chemically bonded sand molds. The bonding agent used in the sands contains phenolformaldehyde. The exact amount disposed of at Weitsman's is unknown. Disposal took place during the late 1970's and ceased in March 1979.

Type of Site: Open Dump [X] Treatment Pond(s) [ ] Number of Ponds ____
Landfill [ ] Lagoon(s) [ ] Number of Lagoons ____
Structure [ ]

Estimated Size 7.5 Acres

Hazardous Wastes Disposed? Confirmed [ ] Suspected [X]

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons gallons)
phenol - formaldehyde	unknown

* Use additional sheets if more space is needed.

File

~~U.S. Army~~

New York State Department of Environmental Conservation
Region 7 Binghamton Sub-Office
c/o Flood Control Maint. Center
Rt. 11, R.D.#1
Kirkwood, New York 13795
(607) 775-2545

February 18, 1983

Bryan Galpin
Tioga Casting Facilities
McMaster Street
Owego, New York 13827

Re: Request for variance from Part 360 requirements.

Dear Mr. Galpin:

This letter is to answer your firm's request for a variance from DEC Part 360 liner and leachate collection system requirements for the present foundry sand disposal area. Your firm had R.J. Martin Consulting Engineer investigate the sub-surface soil conditions of the site. Empire Soil Investigations, Inc. conducted six borings of the approximately 1.5 acre site. The natural soil, underlining the present foundry sand deposited in the disposal location, was recovered from three of the borings. A composite specimen was remolded from these samples and was found to have a laboratory permeability of approximately 2×10^{-8} cm/sec.

This office received all the test results and other information from your engineer and has completed review of the items. We have also been in contact with you to review, what your present plans are for handling the foundry wastes/cupola dust produced at the facility. You told me that your firm plans on contracting with a waste transporter to haul your foundry wastes to the Landstrom Landfill. You said your hauler will have the proper DEC Part 364 Permit. You said that your firm plans on using the present 1.5 acre disposal area as a waste holding management vessel and not as the ultimate disposal area. You told me that you probably would not be emptying the entire area of foundry wastes because of the cost involved, but you may reduce, to some extent, the present quantity of waste disposed in this area.

This office does not have any problems with your above listed proposal. As you know, our Region has written to Mr. Landstrom, stating that your foundry waste is acceptable for landfill disposal. Your present disposal area, proposed to be a holding area, has a present Part 360 Permit from our Department, that will not expire until April 30, 1984. My letter of December 7, 1981, to John Sweet, outlined the closure requirements for the foundry sand disposal area, if at some point you decide to discontinue use of the area and close it out. As long as you do not laterally expand this area, the disposal site meets our current regulations.

My interpretation of our Departments' Part 360 regulations in relation to your specific situation is as follows:

1. You do not need any variance from Part 360 regulations to operate the present site as an immediate foundry waste storage area, prior to transportation of the material to the final disposal site (landfill). You may remove foundry waste already disposed at the location.

2. Our regulations do not require a liner and leachate collection for existing solid waste disposal sites as long as the disposal operation is over area of old fill deposition. As long as your operation contines over waste previously deposited, your operation meets our regulations.

3. Your consulting engineers' report on the subsurface conditions in your disposal area indicates the laboratory permeability of the soil is quite low (approximately 2×10^{-8} cm/sec). However the actual integrity of the soil layer under the disposal area is unknown, without an actual field inspection of the soil. Such an inspection is impossible due to the existence of the deposited foundry waste. No decision can be made on the acceptability of the natural soil as a liner material, until such an inspection is accomplished by a licensed engineer.

This office will not issue the disposal site a variance from the liner and leachate collection system because we do not see any reason why your present disposal operation and proposed future operation needs a variance. As stated above, these operations meet our regulations. If you decide to remove all the foundry waste from the disposal area and continue to operate the area as an intermediate holding vessel, prior to landfill disposal, the site still meets our regulations.

To date, we have found no problems with your waste handling at this location. The natural soil, which has been shown to be quite impermeable, should provide a good degree of protection for avoiding any future problems. Your quarterly groundwater monitoring program will pick up any changes, that might occur in groundwater quality at the site.

The only matter, that we would like to review further, is the metals level found in the cupola dust sample tested for your firm by Residuals Management Technology, Inc. The metals level, reported by RMT, would classify the material as a hazardous waste. I spoke to you about these levels on the 16th. I agreed to secure a sample of the material on March 2nd and submit it to our laboratory for analysis. Based on the analysis results of this material, I will advise you if our Department requires the cupola dust waste to be handled differently from your present method.

If you have any questions, contact me.

Sincerely,

Lawrence T. Lepak

Lawrence T. Lepak, P.E.
Senior Sanitary Engineer

LTL:kr
cc: S. Lackey

:3 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Messers. Gross & Lackey
FROM: L. Lepak
SUBJECT: Closure of Tioga Casting Facilities Part 360 Permitted Foundry Waste Disposal Area

DATE: 5/2/84

I have attached for your information a copy of the proposed closure plan for the Part 360 Permitted Foundry Waste Disposal Area at Tioga Casting Facilities. I met with the firm on April 13th and advised them of closure requirements, including long term groundwater water monitoring. After discussing these requirements and possible future liability, the firm decided it would probably be better to remove the foundry waste from the site and dispose of it at Landstrom's landfill. Their closure plan summarizes this proposed action. Their waste area is only about 1 acre in size, so we are not talking about a huge area. Contact me if you have any questions.

L. Lepak
L. Lepak

LTL:kr

PHONE 607/687-1830

TIOGA CASTING FACILITIES

Div. of T. F. C.

1 FOUNDRY STREET OWEGO, NEW YORK 13827

ANCIENT SYMBOL FOR IRON

April 25, 1984

Landfill Closure Proposal
Tioga Casting Facilities

The following is the proposed closure plan for the landfill site at the western end of the facility property. The landfill is approximately 185 feet by 225 feet and was used for storage of solid wastes generated by Tioga Casting Facilities. After meeting with the New York State Department of Environmental Conservation in Albany on April 5, 1984, and with Larry Lepak of the Region 7 sub-office in Kirkwood, New York on April 13, 1984, it was determined that Tioga had two alternatives to closing out the present landfill site. The first option was to place a cover of material on the landfill site to meet all NYSDEC requirements, as well as an elongated post closure program. The second option was to remove all materials placed in the landfill site to a certified landfill, as is presently done with our solid wastes. Tioga has reviewed thoroughly both options and has decided to act on the removal of the wastes from the site.

The following are the intentions of Tioga to remove all foundry wastes located within the landfill site including timetables and hauling proceedures.

1.) Tioga has begun to contact possible contractors for the purpose of bidding on the job. Included in the proceedure would be all hauling and loading vehicles as well as personnel. At present, Tioga intends to contact a minimum of 7 - 10 possible contractors from the local area. Any and all hauling would be conducted in complete accordance of New York State regulations as well as all necessary permitting proceedures. We would anticipate this proceedure to be completed within (60) to (90) days.

TIOGA CASTING FACILITIES
Div. of T. F. C.

2.) After completion on bidding proceedures, Tioga intends to begin removal of the material from the landfill site immediately upon obtaining all necessary permits. Due to the economics that will be involved, Tioga would like to conduct the removal process over a (2) year period. The intention of this proposal would be to allow the company to distribute the payment over a (24) month period.

In summary, Tioga would like to have all bidding proceedures for total removal of wastes completed by July 30, 1984. In addition, we would like to have all wastes completely removed from the landfill site by July 30, 1986. Tioga will be making every attempt to complete the actual removal process in as short a timespan as is both physically and economically feasible.

Very truly yours,

John E. Sweet, Jr.
C.E.O.

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: Dan Halton
FROM: Pat Mullins
SUBJECT: In-Place Toxics List
Tioga Casting Facilities (also known as Tioga Foundry)
DATE: April 24, 1979

In December, 1978, this office learned that Tioga Casting has been disposing of their industrial waste on lands owned by Ben Weitsman and Son, Inc. at 15 West Main Street, Owego.

We first became aware of the site when Ed Bogden of NYSHD called to report that the Owego Village Water Department was concerned about potential contamination of a well near the Weitsman site. Reportedly the well is not in full time use, but is used to supplement other Village wells during high summer demand. The well is approximately 2,000 feet south of the site.

An inspection of the site was made on December 18, 1978. At that time I observed that a black solid material had been dumped over the bank into an excavation at the rear of Weitsman's property. Also, a large pile of the same material was located at the top of the bank. No standing water or ice was noted at the bottom of the excavation, which I estimate to be 20 feet below grade. On subsequent inspections (January 10, 1979, January 29, March 21) standing water was noted in the excavation.

We initiated steps to have Tioga Casting's waste hauler register as an Industrial Waste Collector. We later learned from the Village of Owego that the Weitsman site was in the floodway. In our opinion this fact removed the site from further consideration as a disposal site, and the hauler was so notified.

No additional material has been dumped at the site to our knowledge since mid-March. At this time we do not feel the Weitsman site should be removed from the In-place Toxics list. The NYSHD intends to sample the nearby Owego well for phenols and cyanide in addition to their usual parameters. Perhaps we will have a better idea as to our future actions after the samples are analyzed.

On March 21, 1979, Mario Nirchi of NYSHD and I visited Tioga Castings and spoke with Don Rogers, Plant Engineer, about any other sites where wastes may have been dumped. After confering with John Sweet, president and founder of Tioga Castings, he told us that perhaps one or two other sites were used when the facility was built in either the late 1940's or early 1950's. One site he feels is now under a new part of their plant and the second is on adjacent land. Rogers said that he thought these sites were relatively small and were used for a short period of time. Weitsman was their prime site. We saw no evidence of these old sites and are not aware of any water supply wells in the area.

The following items are brought to your attention:

1. The wastes generated consist of cupola slag, waste sand, and iron grindings from their air pollution control equipment and some chemically bonded sand molds. The chemical used in these sands contains the phenol-formaldehyde. Tioga Castings is installing a sand recovery system to allow reuse of this sand. The system is scheduled to go into service this summer, thus eliminating this portion of their industrial waste.

2. The Central Office has offered the opinion that this material is suitable for landfilling out of the floodway and groundwater.

3. Tioga Castings has submitted an application for a Permit to Operate a disposal site on land they are purchasing which is adjacent to their plant.

4. The proposed site is located in the flood plain, as is most of Owego. However, we feel that the site is acceptable, since it is surrounded by an earthen berm and has no groundwater within five feet of the surface. Also, the Village of Owego said that the site is acceptable.

P. Mullane

PEM/ems

cc: M. Nirchi

1.0 EXECUTIVE SUMMARY

The Weitsman Property is an active salvage operation owned and operated by Harold (Fred) Weitsman. Facility operations include the salvage and recycling of various scrap metals, junked vehicles and vehicle parts and expended electronic components. Operations have recently been expanded to include the remanufacture of metal products for building construction. Salvage operations have been continuous at the site since the mid-1930's.

The salvage yard served as a disposal site for industrial wastes originating at the Tioga Casting facility in Owego, New York. Material disposed of is reported to have consisted of waste sand and chemically bonded sand molds. The bonding agent used in the sands contains phenol-formaldehyde. The exact amount disposed of at Weitsman's is unknown. Disposal took place during the late 1970's and ceased in March 1979.

The Weitsman Property occupies a 7.5-acre tract on West Main Street in the Village of Owego. The property is a partially enclosed compound open to the south and east. There are two buildings on site: an office/scale house and a larger manufacturing facility (Figure 2). The interior of the compound contains 8-10 large piles and several smaller piles of material awaiting salvage/recycling. Active operations take place in the open central section. The waste sands and sand molds were dumped in the center section of the yard, ~~being~~ used as fill to raise the surface elevation of the yard.

at the time of W's vis.

The Weitsman site was visited on October 18, 1985 by two inspectors from Wehran Engineering. The purpose of their visit was to conduct a physical inspection of the site in support of this investigation. Prior to the inspection, all available state files were reviewed and ~~any~~ individuals having knowledge of the site were contacted. The inspection consisted of a walk around the site, along the perimeter and into areas adjacent to the site. Concurrent with this inspection, air quality monitoring using an HNU photoionizing organic vapor analyzer was accomplished. Items of specific interest were:

any implies all

- The overall condition of the site
- The presence of disturbed areas
- Discarded drums
- Evidence of waste sands and sand molds
- Evidence of chemical spillage

Describe better

Prior to the inspection, the inspectors met with and were then accompanied by Mr. Fred Weitsman, the owner.

In general, the overall condition of the site was fair. Scrap material awaiting salvage was segregated into large piles. The locations of some of these piles hindered inspection of the site grounds. Evidence of the dumping location and quantity of waste sand dumped was completely lacking.

The HRS score is a preliminary score based on:

- Site inspection notes
- NYSDEC files
- Pertinent USGS 7-1/2 minute topographic maps (Owego, ~~Appalachian~~) Apalachin (look it up!)
- Information contained in NYSDEC Bulletin No. 69, 1972
- Information contained in the New York Geological Association Guidebook to Fieldtrips, 53rd Meeting, 1981

Was this info. sufficient?

Based on the above-cited information sources, the preliminary HRS score is ~~25.32~~. 27.12

S_M?

3.0 SCOPE OF WORK

To complete the preliminary HRS score for the Weitsman site, the following scope of work was completed:

- A review of the following:
  - Available information from federal, state, and municipal agencies
  - Published documents from the U.S. Geological Survey, Soil Conservation Service and state agencies for geological, hydrological and topographical data
  - Available files, reports and court cases
- Interviews with individuals having knowledge of the site

Information gathered included well logs, land use data, water usage patterns, critical habitats and endangered species data, meteorological data, hydrological, geological and topographical data, waste characteristics and demographic information.

Following an initial file review, a site inspection was conducted. The intent of the inspection was to verify existing file information and to conduct an HNU survey to screen for potential air releases. Items of specific interest in the site investigation were:

- Overall site environmental conditions
- The presence of disturbed areas
- Visual signs of waste materials (drums, sludges, etc.)
- The occurrence of leachate
- Site topography

A detailed analysis was performed on all data collected in preparation of a preliminary HRS score. Where information was lacking and a final HRS

score could not be computed, recommendations were made for a Phase II investigation. This investigation was designed to verify the assumptions made in the preliminary scoring and to collect the additional data needed to complete the site assessment. A summary of agencies contacted, contact person, address and information obtained follows.

4.0 SITE ASSESSMENT

4.1 SITE HISTORY

The Weitsman site is a scrap metal salvage yard and metal remanufacturing facility, located at 15 West Main Street (NY Route 17C) in the Village of Owego. The property is owned by Mr. Fred Weitsman, whose family has operated a salvage yard at the site since the mid-1930's. (Mr. Fred Weitsman, personal communication, October 18, 1985).

The Weitsman site accepted industrial waste sands and chemically bonded sand molds from Tioga Castings of Owego, New York during the 1970's. The sands molds were used primarily as fill material to raise the level of the salvage yard. Tioga Casting ceased disposal of its waste sands and molds at Weitsman's in March 1979 after it and its waste hauler were advised by the NYSDEC that the site was situated in the floodplain of the Susquehanna River and no further disposal would be allowed.

Mr. Weitsman stated that the waste material disposed of by Tioga Casting arrived by truck at infrequent intervals and was dumped on the ground surface, presumably in low spots or excavations. He further stated that he had no recollection of the total quantity brought in by Tioga Casting.

4.2 SITE TOPOGRAPHY

The Weitsman site is located on the floodplain of the Susquehanna River, less than 2,000 feet from the confluence of the Susquehanna and Owego Creek. The site is essentially flat, with little topographic relief. Ground surface elevation is approximately 800 feet, and the topographic gradient is less than three percent to the south-southwest.

The surrounding terrain is slightly lower in elevation and is characterized by local depressions. The reworked surface of the site and the large number of debris piles locally enhance ponding of runoff. Surface drainage is to the south-southwest, away from the site.

4.3 SITE HYDROGEOLOGY

Local site geology is comprised primarily of heterogeneous stratified drift, made up of predominantly coarse grained sands and gravels. Interbedded with the stratified drift are post-glacial and glacial lake deposits (silt, fine sand, clay), alluvial deposits (sandy gravel) and floodplain silts. The soils in the vicinity of the site are classified as Tioga silty loam by the Soil Conservation Service. Bedrock is interbedded shales, siltstones and fine to coarse grained sandstones of the Upper Devonian West Falls Group. Regional dip is to the south and depths to bedrock range from 70 to 250 feet.

Locally, the entire thickness of stratified drift may be sand and gravel. Only the coarser sands and gravels within the drift yield sufficient water to be considered aquifers. Test boring logs (24-37, 12-28, 00-29, 40-42, 44-21) and Owego Water Company well logs (Well No. 4, Well No. 1) indicate the presence of sands and gravels at or near the land surface in the general vicinity of the site. Locally these near-surface sands and gravels may be thin and above the water table, but as a rule they form the most productive aquifers since they are moderately to highly permeable and generally in hydraulic contact with the river from which water can infiltrate to sustain yields.

The regional groundwater flow pattern presumably parallels the general flow direction of the surface drainage, south-southwest. The groundwater flow pattern is controlled both regionally and locally by the existing topography and the distribution of unconsolidated aquifers. Owego Water Works Wells No. 4 and No. 1 are in close proximity to the Susquehanna River and the Owego Creek respectively. During peak demand, pumping of the aquifer could create a cone of depression causing a localized reverse in groundwater flow direction. In addition, if the drawdown is sufficient, localized induced infiltration from the Susquehanna and Owego Creek must be considered as a possibility. Is there the possibility of more than one aquifer?

4.4 SITE CONTAMINATION

To date there has been no documented surface or groundwater contamination in the vicinity of the Weitsman site. The NYSDOH has

periodically sampled Owego Water Works Well No. 4 with no measurable level of contaminants detected. See Pg 5-1

Past disposal practices of dumping on the surface or in excavations at the site may encourage migration of waste into the shallow groundwater table. The Owego Water Well No. 4 is screened at 54 feet and may not draw from shallow sources. Test boring logs in the vicinity of the site indicate levels of soil saturation between 5 and 20 feet. This would allow shallow groundwater to come in contact with waste materials at shallow depths. Thus the possibility exists that contamination could be migrating in the shallow groundwater table without being detected to date.

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

5.1 NARRATIVE SUMMARY

The Weitsman site is a 7.5-acre site located at 15 West Main Street in the Village of Owego, Tioga County. The property is owned by Mr. Harold (Fred) Weitsman, who operates a salvage and metal remanufacturing business at the site. Salvage operations at the site have been continuous since the 1930's. The site was used by Tioga Castings of Owego as a disposal site for industrial waste sands and chemically bonded sand molds in the late 1970's. Tioga Castings ceased using the site in 1979.

The site is located within the Susquehanna River Basin, on the flood plain of the Susquehanna River. The site is some 2,000 feet northeast of the confluence of the Susquehanna and Owego Creek.

The industrial wastes deposited by Tioga Casting at Weitsman's used a chemical bonding agent that contained phenol-formaldehyde. Tioga Casting ceased disposal at Weitsman's in March 1979 and shifted its disposal to an approved landfill on its own property. [Water quality samples from monitoring wells and substrate analyses of soil samples indicate no elevated levels of contaminants (phenols, trace metals).] At Weitsman's or Tioga Casting??? See Pg. 4-2 Site Contam. 1st sentence.

The Village of Owego (population 6,000) is served by a municipal water supply whose principal source is groundwater drawn from the unconsolidated deposits in the Susquehanna River basin. The Owego Water Company Well No. 4 is located 1,500 feet southeast? south (downgradient) of the Weitsman site. The NYSDOH has periodically monitored water quality from this well and has to date detected no appreciable quantities of contamination.

then some contamination has been detected?!?

~~1500 feet south of site lies at the shore of or in Susquehanna River!~~

Is this correct? OK

SOURCES -- WEITSMAN SALVAGE YARD
(Page 1)

Name/Address/Phone	Type of Contact	Date	Information Provided
Mr. Robert Abrams, Attorney General New York State Attorney General Department of Law State Capitol, Room 221 Albany, New York 12224 (581) 474-7330	Letter	8-24-84	None available
Dr. David Axelrod, Commissioner New York State Department of Health Tower Building, Empire State Plaza Albany, New York 12237 (518) 474-8427	Letter	8-24-84	None available
Mr. John Czapor, Environmental Engineer USEPA, Region II 26 Federal Plaza New York, New York 10278 (212) 264-1573	Letter	8-24-84	None available
Mr. Paul Dodd, State Conservationist U.S. Department of Agriculture Soil Conservation Service James M. Hanley Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5521	Letter	8-24-84	Name and address of local representative
Dr. Robert H. Fakundiny, State Geologist Geological Survey of New York State State Education Department Division of Museum Services Albany, New York 12230 (518) 474-5816	Letter	8-24-84	None available
Mr. Robert J. Graziano General Manager Owego Water Works 36 Lake Street Owego, New York 13827 (607) 687-1491	Personal Commun.	10-18-85	Well logs
Mr. James L. Larocca, Commissioner NYSDOT 1220 Washington Avenue Albany, New York 12232 (518) 457-4422	Letter	8-24-84	None available

SOURCES -- WEITSMAN SALVAGE YARD
(Page 2)

Name/Address/Phone	Type of Contact	Date	Information Provided
Dr. Ian Loudon, Regional Health Director New York State Northern Regional Office New York State Department of Health 9 Market Street Amsterdam, New York 12010 (518) 843-3520	Letter	8-24-84	None available
Mr. Lawrence A. Martens, District Chief U.S. Department of the Interior U.S. Geological Survey Albany District Office P.O. Box 1350 U.S. Post Office and Court House Albany, New York 12201 (518) 472-3107	Letter	8-24-84	None available
Mr. Gary E. Rice Director, Environmental Health Services Tioga County Environmental Health Services 231 Main Street Owego, New York 13827 (607) 687-4535	Letter Personal Commun.	10-2-85	Site history
Mr. Carl B. Sciple, Division Engineer Army Corps of Engineers New England Division 424 Trapelo Road Waltham, Massachusetts 02154 (617) 894-2400	Letter	8-24-84	None available
Mr. Frederick J. Scullin, Jr. U.S. Department of Justice U.S. Attorney Northern District of New York 369 Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5165	Letter	8-24-84	None available
Mr. Richard D. Spear, Chief Surveillance & Monitoring Branch USEPA, Region II Woodbridge Avenue Edison, New Jersey 08817 (201) 321-6685	Letter	8-24-84	None available

SOURCES -- WEITSMAN SALVAGE YARD
(Page 3)

Name/Address/Phone	Type of Contact	Date	Information Provided
Mr. Frank Wilds Tioga County Board of Cooperative Extension Owego, New York 13827 (607) 87-4020	Personal Commun.	10-25-85	Information concerning irrigated land

4 of 14 = 29%

June 28, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Weitsman Property

LOCATION: 15 West Main Street, Owego, New York

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

None

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Unconsolidated Pleistocene sand and gravel deposits
Upper Devonian (Sonyea Group/West Falls Group) bedrock

Source: Randall, A. R., 1981, in: Guidebook, 53rd Mtg., NYSGA

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

Variable, ranges from 5–20 feet, assume 10 feet

Source: Boring Logs, in Records of Wells and Test Borings, in the Susquehanna River Basin, New York, NYSDEC Bulletin No. 69

Depth from the ground surface to the lowest point of waste disposal/storage:

Estimate 6 feet

Score = 3

Source: Interview with property owner

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

38 inches

Source: Federal Register, Vol. 47, No. 137, Fig. 5

Mean annual lake or seasonal evaporation (list months for seasonal):

27.5 inches

Source: Federal Register, Vol. 47, No. 137, Fig. 4

Net precipitation (subtract the above figures):

10.5 inches

Score= 2

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Tioga silt loam, high-bottom phase

Source: Soil Survey, Tioga County, New York, 1953

Permeability associated with soil type:

$10^{-5} - 10^{-7}$ cm/sec

Score = 1

Source: Federal Register, Vol. 47, No. 137, Table 2

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Unconsolidated fine sand

Score = 2

Source: HRS Users Manual (HW-10), USEPA, 1984

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Material used primarily as fill material to raise the level of the salvage yard

Method with highest score:

No containment methods practiced

Score = 3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Phenol-formaldehyde

Source: NYSDEC files

Compound with highest score:

Phenol

Score = 12

Source: NYSDEC files

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Exact amount unknown; assume the following:

100 truckloads at 10 cubic yards/load = 1,000 cubic yards

Basis of estimating and/or computing waste quantity:

Interview with property owner

This is the contaminated material, not the haz. waste quantity. How much binder can be found in a truckload of sand? 50%? 5%?

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

1. Village of Owego municipal water supply
2. Residential and commercial water supply

Score = 3

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Owego Water Company Well #4 located downgradient from site (southeast)

Distance to above well or building:

1,500 feet

Score = 4

Source: HRS Users Manual (HW-10), USEPA, 1984

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

1. Village of Owego: 6,000
2. Residential/commercial: 2,500

Source: Owego Water Company

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None

and also Bd. of Coop. Ext. ??

Source: Soil Conservation Service, Owego, New York

Total population served by ground water within a 3-mile radius:

Score = 4 ← 8,500?

Final score = 35

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

<1%

Source: USGS Quadrangle, Owego, New York

Name/description of nearest downslope surface water:

Susquehanna River

Source: USGS Quadrangle, Owego, New York

Average slope of terrain between facility and above-cited surface water body in percent:

<1%

Matrix score = 0

Source: USGS Quadrangle, Owego, New York

Is the facility located either totally or partially in surface water?

No

Source: USGS Quadrangle, Owego, New York

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

2.25 inches

Score = 2

Source: Federal Register, Vol. 47, No. 137, Fig. 8

Distance to Nearest Downslope Surface Water

1,700 feet to the Susquehanna River

Score = 2

Source: USGS Quadrangle, Owego, New York

Physical State of Waste

Unconsolidated fine sands

Score = 2

Source: NYSDEC files
HRS Users Manual (HW-10), USEPA, 1984

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

None, material used primarily as fill material to raise level of the salvage yard

Method with highest score:

No containment methods practiced

Score = 3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Phenol-formaldehyde

Source: NYSDEC files

Compound with highest score:

Phenol

Score = 12

Source: NYSDEC files

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum);

Exact amount unknown; assume the following:

100 truckloads at 10 cubic yards/load = 1,000 cubic yards

Score = 6

Basis of estimating and/or computing waste quantity:

Interview with property owner

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Irrigation, recreation

Score = 2

Source: Tioga County Board of Cooperative Extension

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Not applicable

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

Not applicable

Source: NYSDEC Endangered Species Unit

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

- Intakes for irrigation purposes located on north bank of Susquehanna River downstream from site
- Intakes for irrigation purposes located on west bank of Owego Creek

Source: Tioga County Board of Cooperative Extension

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

110 acres x 1.5 = 165

Source: Tioga County Board of Cooperative Extension

Total population served:

165

Name/description of nearest of above water bodies:

Susquehanna River
Owego Creek

Distance to above-cited intakes, measured in stream miles:

Susquehanna River: approximately 2.5 miles
Owego Creek: <1 mile

Source: USGS Quadrangle, Owego, New York

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

None

Date and location of detection of contaminants:

Not applicable

Methods used to detect the contaminants:

HNU photoionizing vapor analyzer

Rationale for attributing the contaminants to the site:

Not applicable

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable

Most incompatible pair of compounds:

Not applicable

Toxicity

Most toxic compound:

Not applicable

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable

Basis of estimating and/or computing waste quantity:

Not applicable

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi **0 to 1 mi** **0 to 1/2 mi** **0 to 1/4 mi**

Not applicable

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Not applicable

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable

Distance to critical habitat of an endangered species, if 1 mile or less:

Not applicable

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Not applicable

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable

Distance to residential area, if 2 miles or less:

Not applicable

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

Not applicable

6.0 ASSESSMENT OF DATA ADEQUACY

The purpose of this Phase I investigation was to evaluate the potential environmental or public health hazard associated with past disposal practices at the Weitsman site. The existing data evaluated was adequate to yield a Hazard Ranking Score of S_m = 27.12. There may be a high potential for a public health hazard as far as groundwater is concerned, since it is used as a drinking water supply. It is doubtful that a Phase II investigation would significantly alter the HRS score; however, a Phase II investigation is essential for evaluating mitigative alternatives.

6.1 GROUNDWATER ROUTE

There is insufficient analytical data to confirm groundwater contamination attributable to the site or the direction and gradient of flow for groundwater at the site. Water quality data from Owego Water Company Well No. 4 indicates no contaminants have yet migrated the distance separating the two. Well No. 4 represents an isolated sampling point, since no other Owego Water Company well is presenently being monitored. Water quality data from monitoring wells installed by Tioga Casting on their property provide only limited background information.

The groundwater flow pattern at the site may be further complicated, since Owego Well No. 4 is in close proximity to the Susquehanna River. Induced infiltration from the river into the aquifer due to drawdown from Well No. 4 cannot be ruled out.

A preliminary score of ~~44.58~~ 45.59 was computed for S_{gw}, based on waste materials assumed to be present, their inferred proximity to the water table and information garnered from logs provided by the Owego Water Company. In order to verify the potential threat of groundwater contamination, the Phase II investigation would be designed to achieve the following objectives:

- Identify and characterize the aquifer of concern.
- Determine hydraulic gradients within the on-site overburden zone of saturation.

- Determine the hydraulic properties of the overburden aquifer constituents (permeability, saturated thickness, etc.)
- Determine direction and occurrence of groundwater flow within the immediate area.
- Determine groundwater quality both upgradient and downgradient of the site.
- Determine depth of fill.
- Determine if a cone of depression exists due to municipal well use. Well is only used part time!! (Summer)

6.2 SURFACE WATER ROUTE

The site is located on the floodplain of the Susquehanna River, approximately 1,600 feet north of the Susquehanna River and approximately 2,400 feet northeast of Owego Creek. Surface drainage from the site is interpreted to be south-southwest. Surface water is not used as a source of drinking water but is used to irrigate several small parcels of tilled land (110 acres) along the north bank of the Susquehanna River (west bank of Owego Creek). Data gathered to score this route was sufficient to compute a preliminary score of 11.08 for S_{SW}. In order to verify the potential threat of surface water contamination, the Phase II hydrogeologic investigation would be designed to achieve the following objectives:

- Evaluate surface drainage patterns
- Sample and analyze surface water from the Susquehanna River and Owego Creek
- Sample and analyze the Owego municipal water supply.

6.3 AIR ROUTE

No measurable readings of organic vapors were detected with the HNU Photoionizer during the site inspection, so the air route score was 0. Additional monitoring should be performed during the Phase II investigation to check for possible contamination resulting from disturbance of the ground surface by subsurface drilling and also as a standard safety measure for personnel involved in the investigation.

6.4 FIRE AND EXPLOSION

There has been no fire or explosion threat certified by a local fire marshall at the site, resulting in a score of zero. The reported wastes are not known to be highly reactive or ignitable, but final determination of a fire or explosion threat can only be made after further investigation to verify the actual waste types disposed of.

6.5 DIRECT CONTACT

There was no evidence of exposed waste during the site inspection and there are no records of any direct contact causing injury to humans or animals. Although the site is covered, the adequacy of this cover cannot presently be determined, and the score for direct contact reflects this uncertainty. The Phase II work plan should include analysis of the thickness and quality of the cover soil at the site to determine the actual potential threat by direct contact with the wastes.

How doe
a zero
reflect th

isn't the site paved?
part of it?

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 754002

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Weitsman Salvage Yard	15 West Main Street

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 C
Owego	NY		Tioga		

09 COORDINATES: LATITUDE __ __ __ . __ | LONGITUDE __ __ __ __ __ . __

10 DIRECTIONS TO SITE (Starting from nearest public road)

West on Main Street from center of Owego

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Fred Weitsman	15 West Main Street

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Owego	NY		( )

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as above	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __ / __ / __ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __ / __ / __ (MONTH DAY YEAR) ☐ C. NON

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 10 / 18 / 85 (MONTH DAY YEAR)
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): Wehran Engineering

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION: 1977 (BEGINNING YEAR) | 1979 (ENDING YEAR) ☐ UNKNOWN

Is this difinite?

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Chemically bonded sand molds and industrial sands allegedly contaminated with phenol - formaldehyde.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential contamination of shallow water bearing zone.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Dennis G. Fenn	Wehran Engineering	(914) 343-0660

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Kevin J. Burns		Wehran Eng.	914 343-0660	11 / 21 / 85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

"12" is no longer required in Phase I. OK

No longer necessary

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	754002

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☒ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Phenol-Formaldehyde	108-95-2			

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling results)

Property Owner: Fred Weitsman

I've seen other Wehran reports where something has been put on each line, even if it just says "None." This way we know if you didn't ignore, overlook, or not know this info.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 754002

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None

No longer necessary but above note pertaining to the remainder of this report.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

V

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	754002

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include species of animals)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
(Spills/Runoff/Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

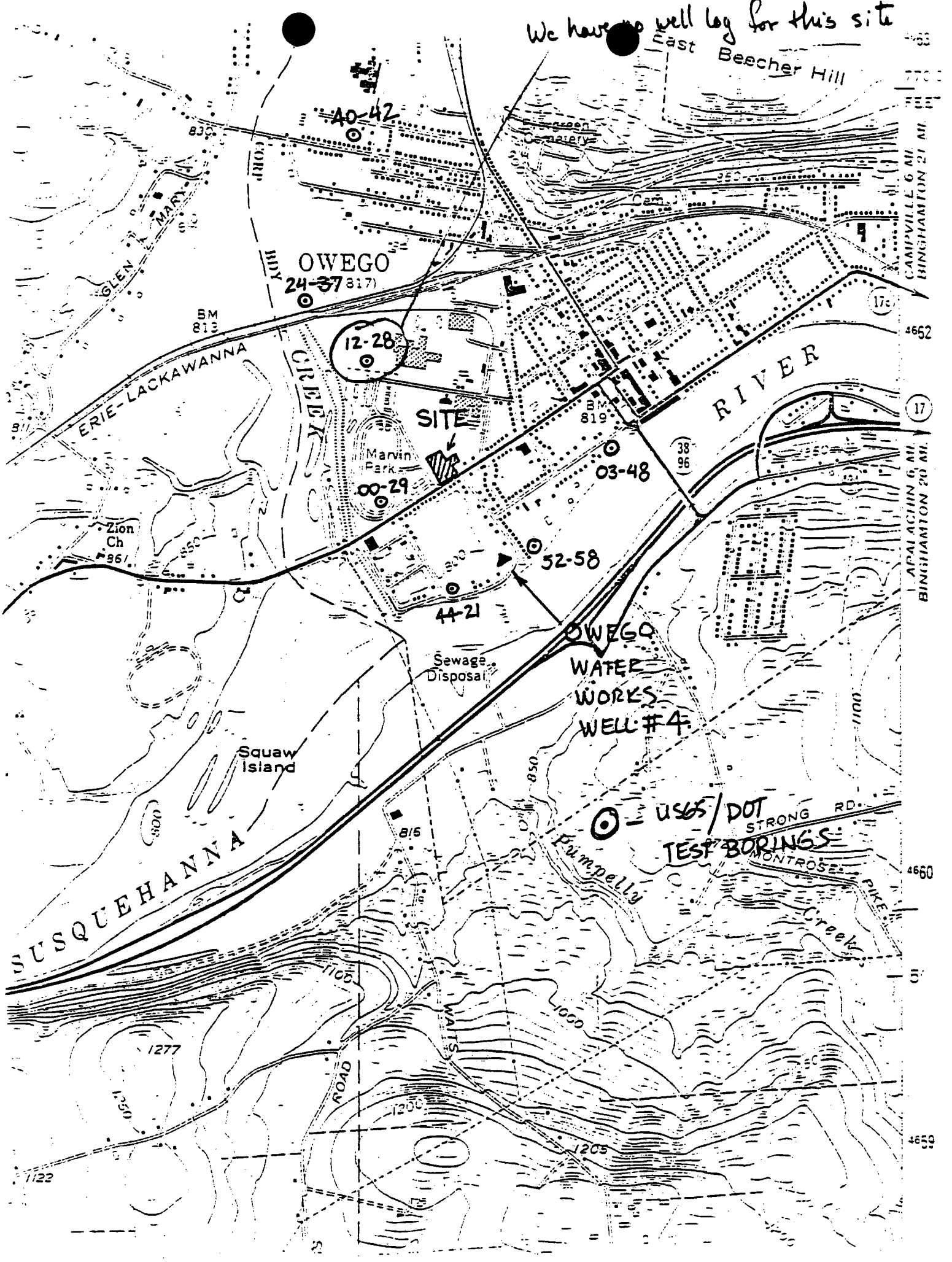
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)


We have no well log for this site
East Beecher Hill
40-42
OWEGO
24-37
BM 813
12-28
SITE
ERIE-LACKAWANNA
CREEK
RIVER
Marvin Park
00-29
03-48
52-58
44-21
Zion Ch
Sewage Disposal
OWEGO WATER WORKS WELL #4
USGS/DOT TEST BORINGS
Squaw Island
SUSQUEHANNA
Pumpelly Creek
STRONG RD
MONTROSE PIKE
Glen Mary
Cem
Green Cemetery
CAMPVILLE 6 MI
BINGHAMTON 21 MI
APALACHIN 6 MI
BINGHAMTON 20 MI
1277
1122
1205
1200
1000
1100
4652
4660
4659

SUPPLY WELL LOG

No. #4

Job 5-11 Owego Water Co. Address Owego, New York

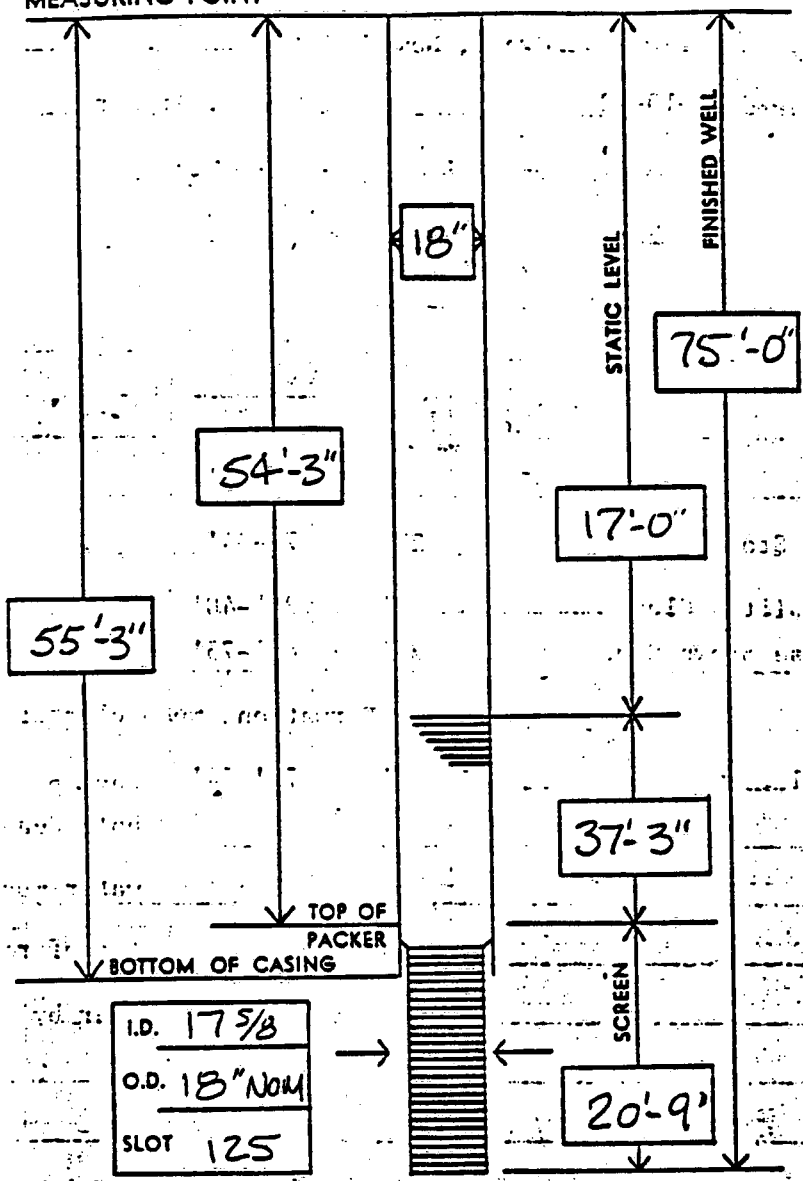
Date Started 7-5-72 Completed 8-10-72 Driller W. Archer

Diameter 18" In. Measured from Grade ☐ Yes ☒ No

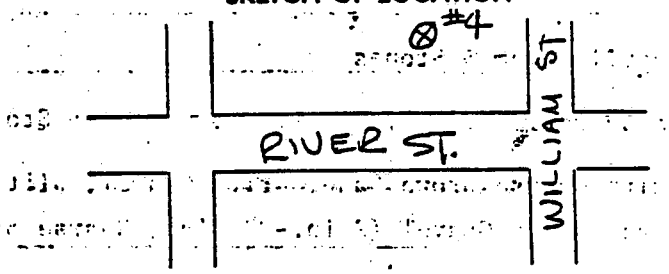
Depth 75' Ft. 0" In. Above Ft. In. Below Ft. In.

Static Level 17' Ft. 0" In. Elevation Ft.

MATERIAL FOUND	STRATUM THICKNESS	STRATUM DEPTH	TEMPERATURE SAND	TEMPERATURE WATER
Topsoil, Loam & Stones	7'	0'-7'		
Coarse heavy Gravel, Grits, Brown Clay & Stones	27'	7'-34'		
Medium-Coarse Brown Sand, Grit, Gravel, Silt & Clay	6'	34'-40'		
Large Heavy Gravel (2 in.-8" Dia), Coarse Brown Sand	35'	40'-75'	Lots of water	
Some Silt & Clay	Formation much cleaner			
Bluish Brown Sand Clay (Sticky) w/ Gravel	9'	75'-84'	Lay open	
imbedded & large stones			hole dead no	
no rock			water must be	
			top of rock	
			near by	



SKETCH OF LOCATION



Show North Point

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Type of Screen— JOHNSON SS 125 SLOT SCEN w/ BAIL HOOK & LEAD PACKER

NOTE — If outer casings are used state diameter, length and whether or not left in the ground.

NOTE — If screen is finished off with riser, give exact description of top of riser—(size and male or female thread.)

REMARKS— Well Developed with Hollow block Surge. Pumped lots of silt out (8-10 yds.) Getting over 1,000 gpf Very little D.D. 1'-6". Well measurements are subject to change as existing grade level will be raised. Letter on when pump house is installed

Well #3 - Original Installation

C. W. LAUMAN & CO., INC. Is this relevant?

Job 7-2 Owego Water Works Date 1-5-66

Address Hodge Street, Owego, N.Y.

Pump: Worthington

Data	Req'd.	Rated
GPM	2000	2000
Lift	43'	
Friction	2'	
T.D.H.	278'	
D.S.	323'	330'

Motor: Lake N.E.

200 HP 220 Volts 3 Phase

1770 RPM Type SK Frame 6286

Lower Bearing 629A226G2

Lower Bearing 289233+P26

Serial MA 15950NRR

PART WINDING

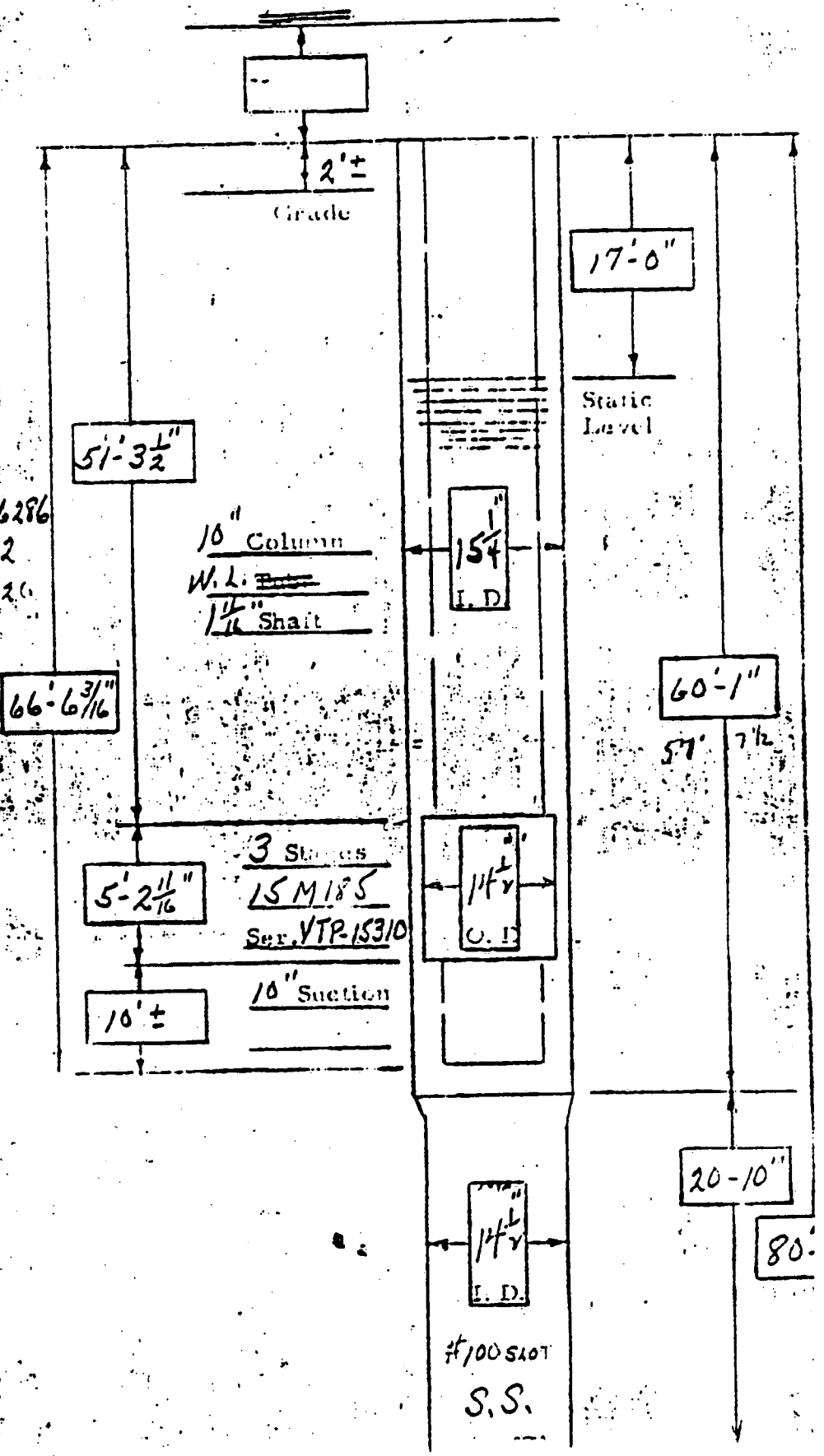
Gear Drive NONE

Serial

Ratio

Air Line Length 52'

Impellers:	Dia.
Closed	15M185



TEST WELL LOG

Job Owego Water Works — Sheet 1 of 1 — Relevant?

Location Broadway (Manter Property) — Well No. 1

Reference Pt. Grade — S.W.L.

Date Started 8/7/56 Completed — Driller Jim Rooney

C or F	No.	Sample Actual Depth	lgth	blow	FORMATION	thick-ness	depth	REMARKS
					Loam	2	2	
					Brown sandy clay	8	10	
					Grey clay somestones	10	20	
					Grey sandy clay	20	70	
					Grey sandy clay	70	85	
					Brown clay at 87	87	93	
					Rock (shale)	93	94	

W 407

TEST WELL LOG

Relevant?

Job Owego Water Works Sheet 1 of 1

Location Owego S. S. George St. (Water Plant) Well No. 2

Reference Pt. Grade S.W.L. 12

Date Started 8/17/56 Completed _____ Driller Jim Rooney

C or F	No.	Sample Actual Depth	lgth	blow	FORMATION	thick-ness	depth	REMARKS
					Fill	0	2	Pumps 60 GPM
					Boulders, stone, gravel, & clay	2	12	10' DD opened
					River grave, fine sand, pkd. tight water	12	30	5' of sand came in
					Cse. gravel & cse. sand, cobblestones	30	57	no life in formation
					Streak hard clay, sand stones	57	576"	too heavy
					Gravel sand stones	576	586	12" ends
					Gravel sand stones	586	63	8" begins
					Grev clay	63	64	
					Streak of clay, gravel, stones, sand, dirty silt	64	84	Bailed hole dry
					Clay, hardpan dirty	84	87	Slow recovery

W 407

Relevant?

TEST WELL LOG

Job Owego Water Works Sheet 1 of 1

Location N. S. Main St. opp. -(Clear Water Well No. 3

Reference Pt. Grade Reservoir) S.W.L.

Date Started 8/27/56 Completed 8/29/56 Driller Jim Rooney

C or F	No.	Sample Actual Depth	lgth	blow	FORMATION	thick-ness	depth	REMARKS
					Fill Earth	0	2	
					Clay	2	5	
					Brown sand - brown clay	5	50	
					Brown clay	50	61	
					Hardpan gravel	61	62	
					Rock-blue stone	62	64	

W 407

TEST WELL LOG

Job Cwe[redacted] Water Works — Sheet 1 of 1

Location Barnes Creek — Well No. 4

Reference Pt. Grade — S.W.L.

Date Started 9/18/56 Completed _____ Driller Jim Rooney

C or F	No.	Sample Actual Depth	lgth	blow	FORMATION	thick-ness	depth	REMARKS
					Fill, boulders, cobblestones	0	3	
					Brown Clay, hardpan, boulders	3	25	
					Grey clay and hardpan	25	38	
					Medium black sand	38	40	
					Gravel and decayed rock	40	42	
					Grey shale	42	43	

W 407

TEST WELL LOG

Job Owego Water Works — Relevant?

Sheet 1 of 1

Location

Well No. 5

Reference Pt. Grade — S.W.L.

Date Started 10/8/56 Completed — Driller Jim Rooney

C or F	No.	Sample Actual Depth	lgth	blow	FORMATION	thick-ness	depth	REMARKS
					Fill	0	2	
					Cobble stones & tree roots	2	5	
					Hardpan, stones and clay	5	11	
					Grey clay and hardpan	11	43	
					Hardpan and gravel (no water)	43	45	
					Grey hardpan, clay and stones	45	49	
					Blue stone boulder	49	50	
					Shale rock	50	54	

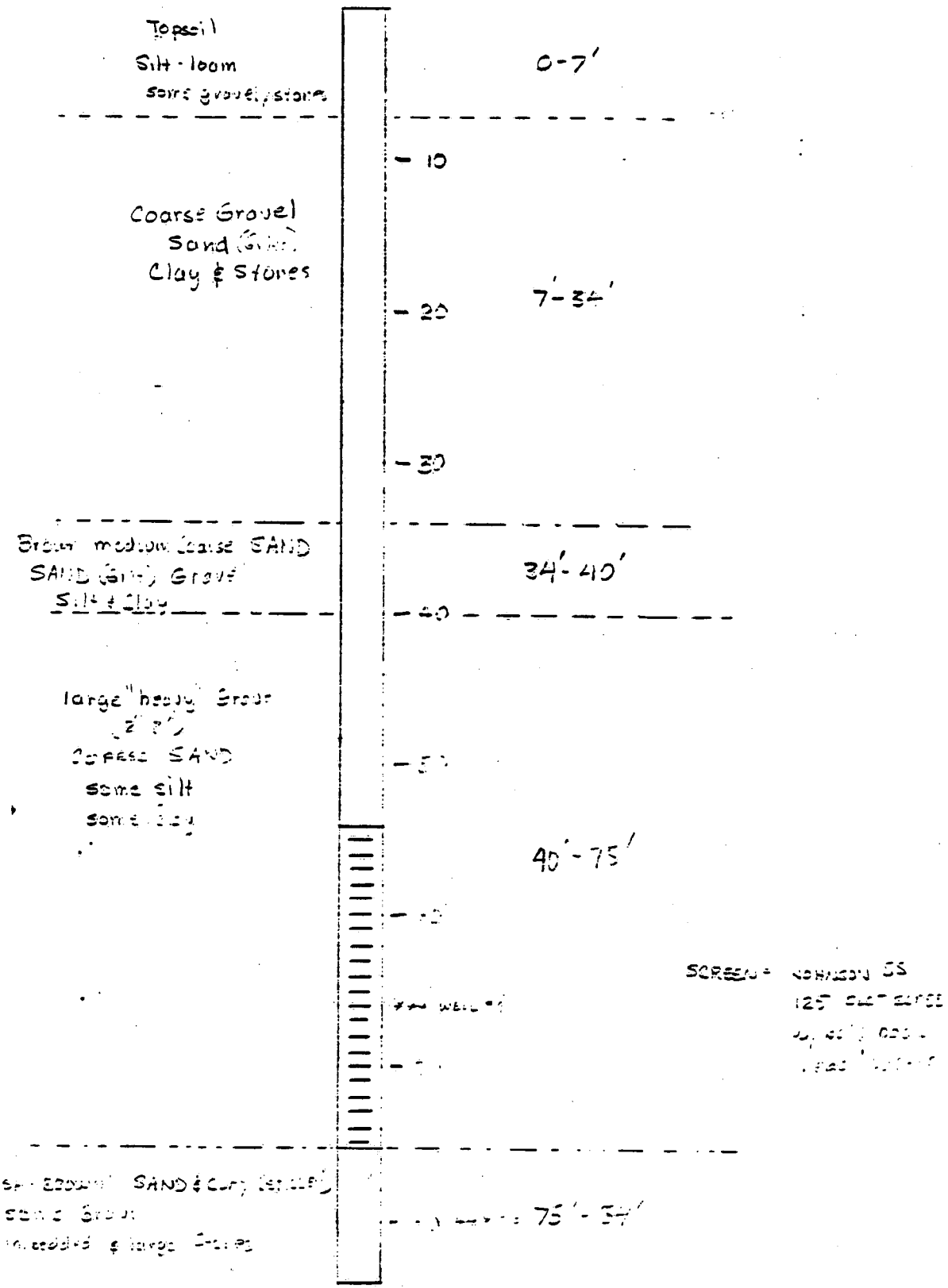
W 407

By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

WELL #4 OWEGO WATER CO.

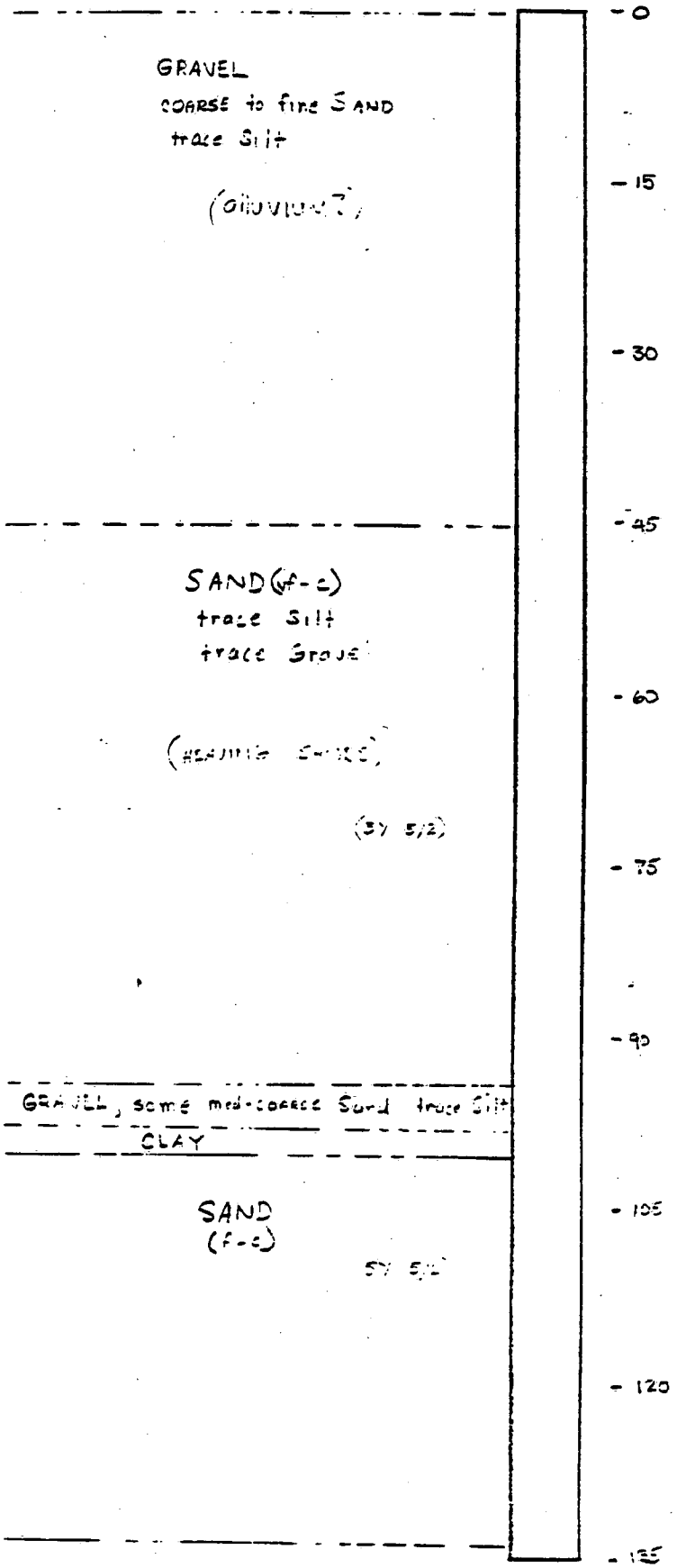


By _____ Date _____
Chkd. by _____ Date _____
Subject

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

WELL 46-59



Where is this well located?

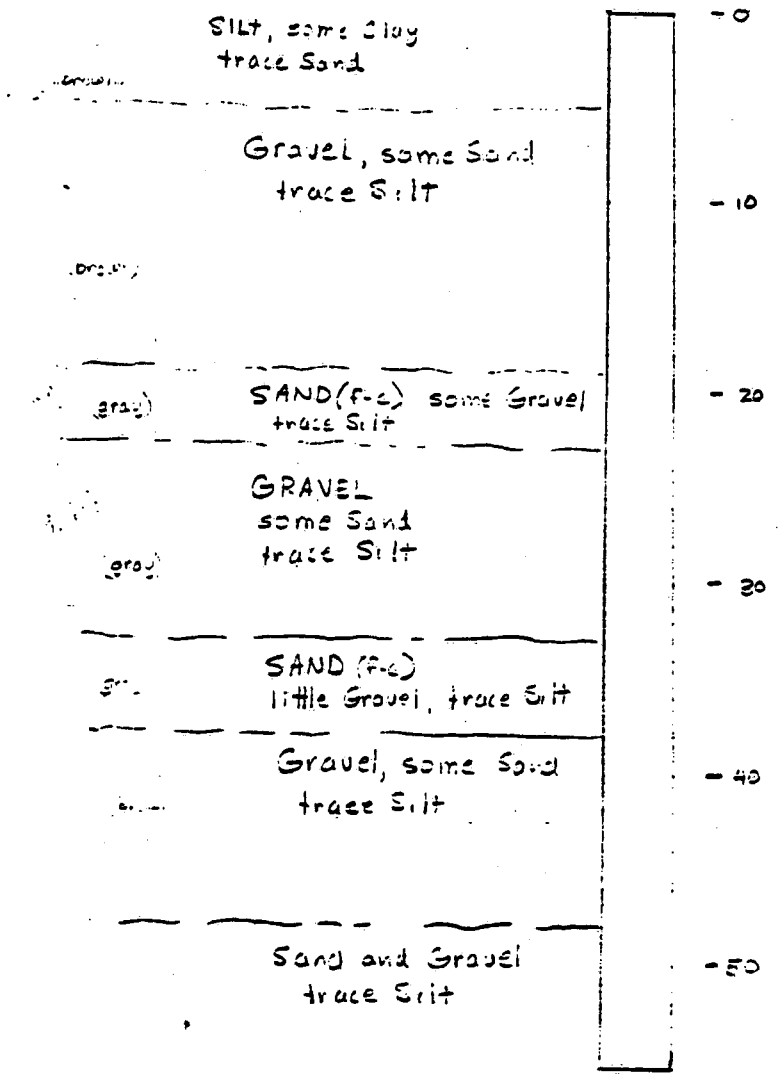
Is it important?

By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

BORING 52-58



@ 5' SATURATION

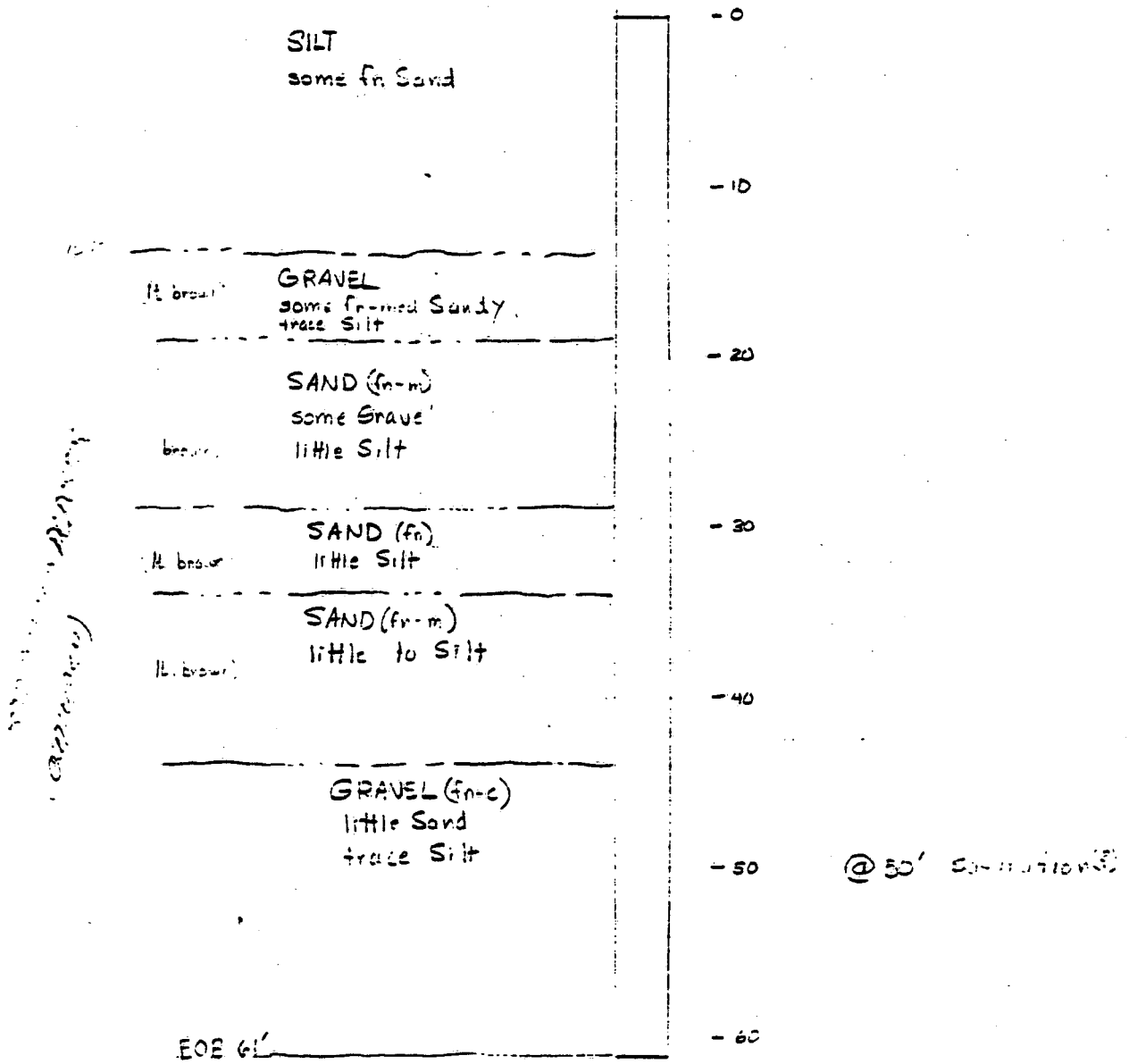
STRATIFIED DEPOSITS
(ALLUVIUM, GLACIAL)

By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 44-21

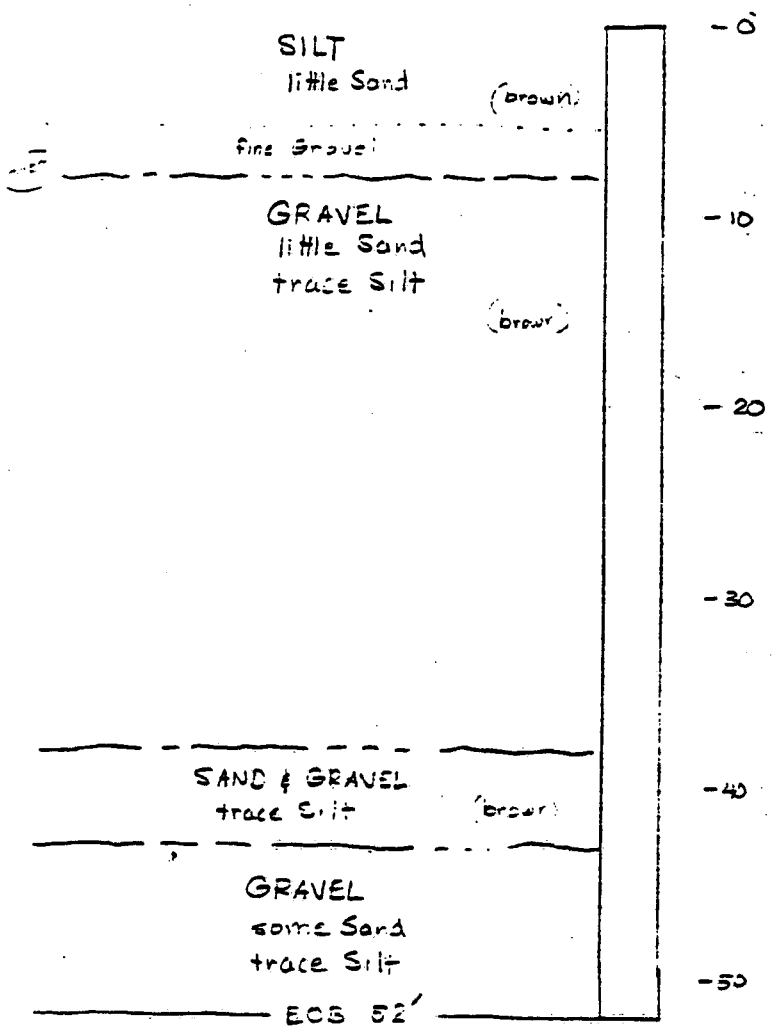


By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 03-45



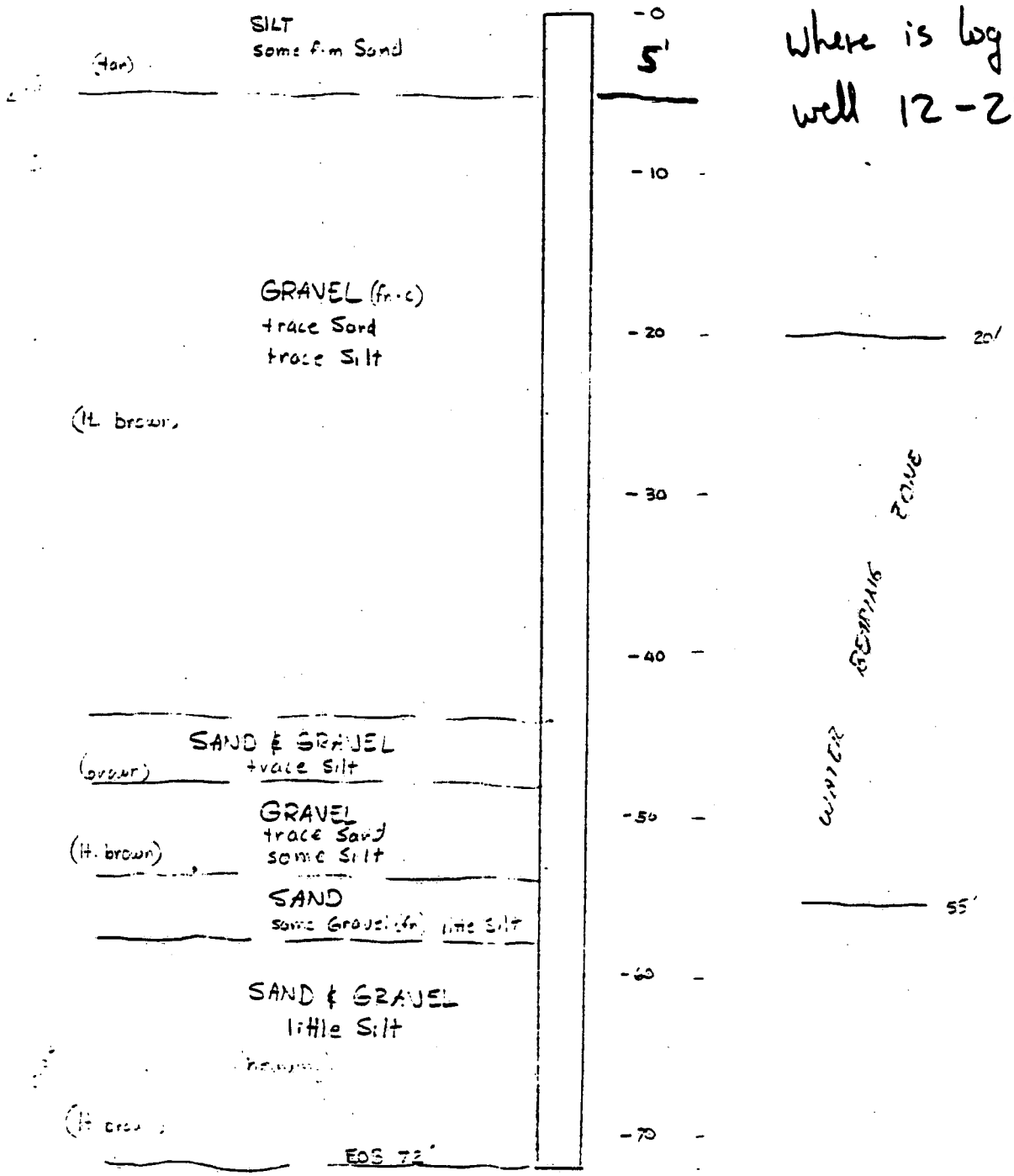
Stratified deposits
(alluvial)

By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 00-29



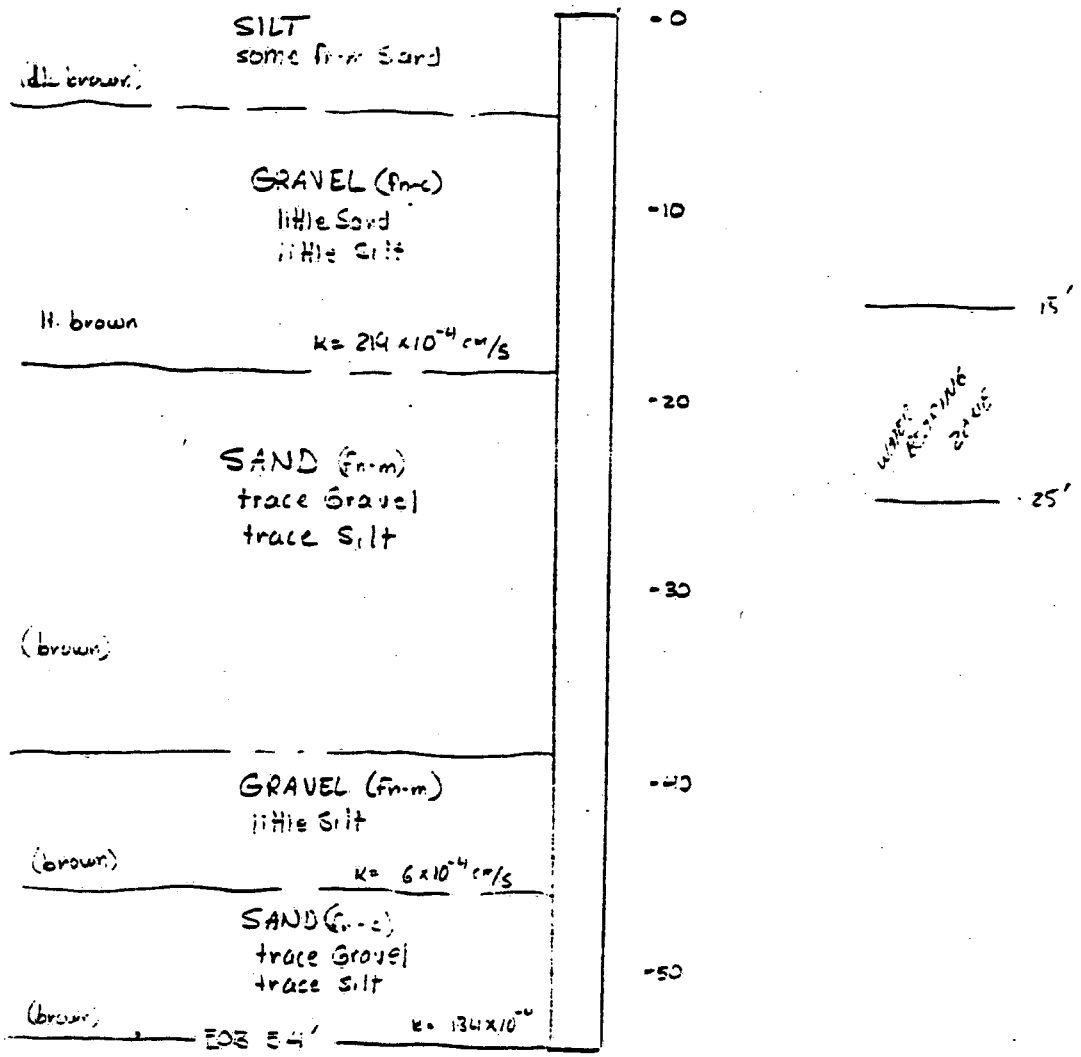
Where is log for well 12-28?

By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 24-37



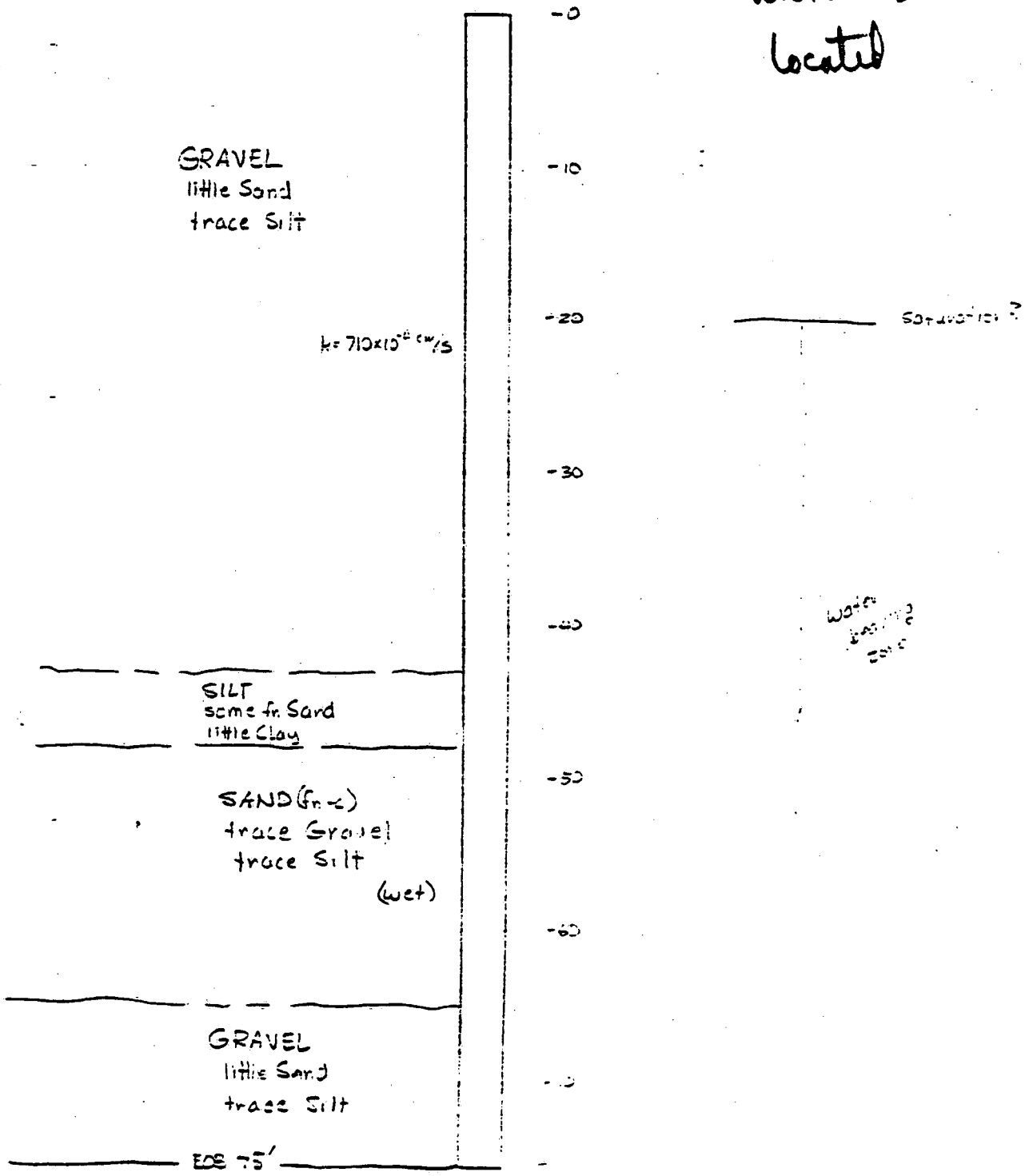
By _____ Date _____
Chkd. by _____ Date _____
Subject _____

WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 42-38

Where is this located

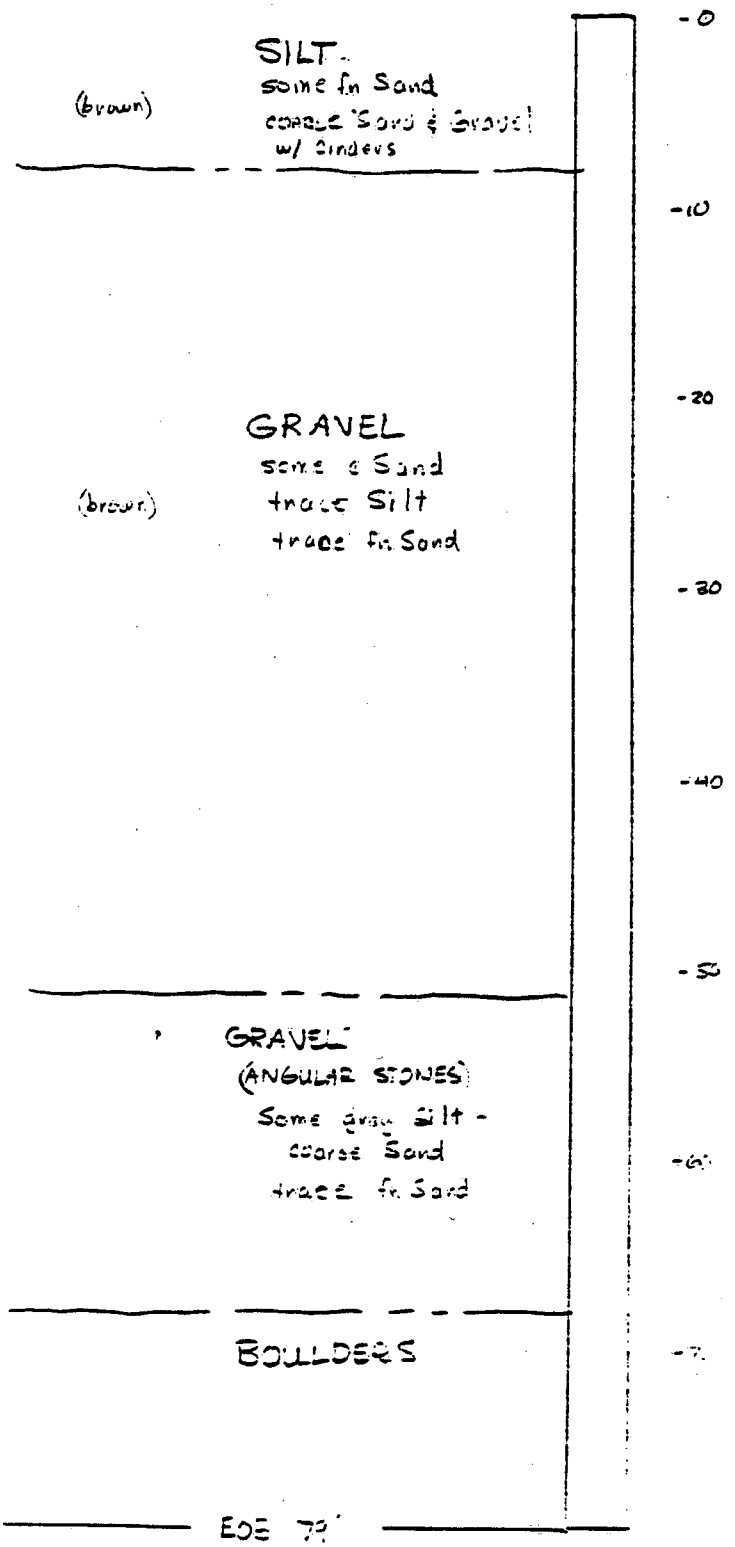


By _____ Date _____
Chkd. by _____ Date _____
Subject _____

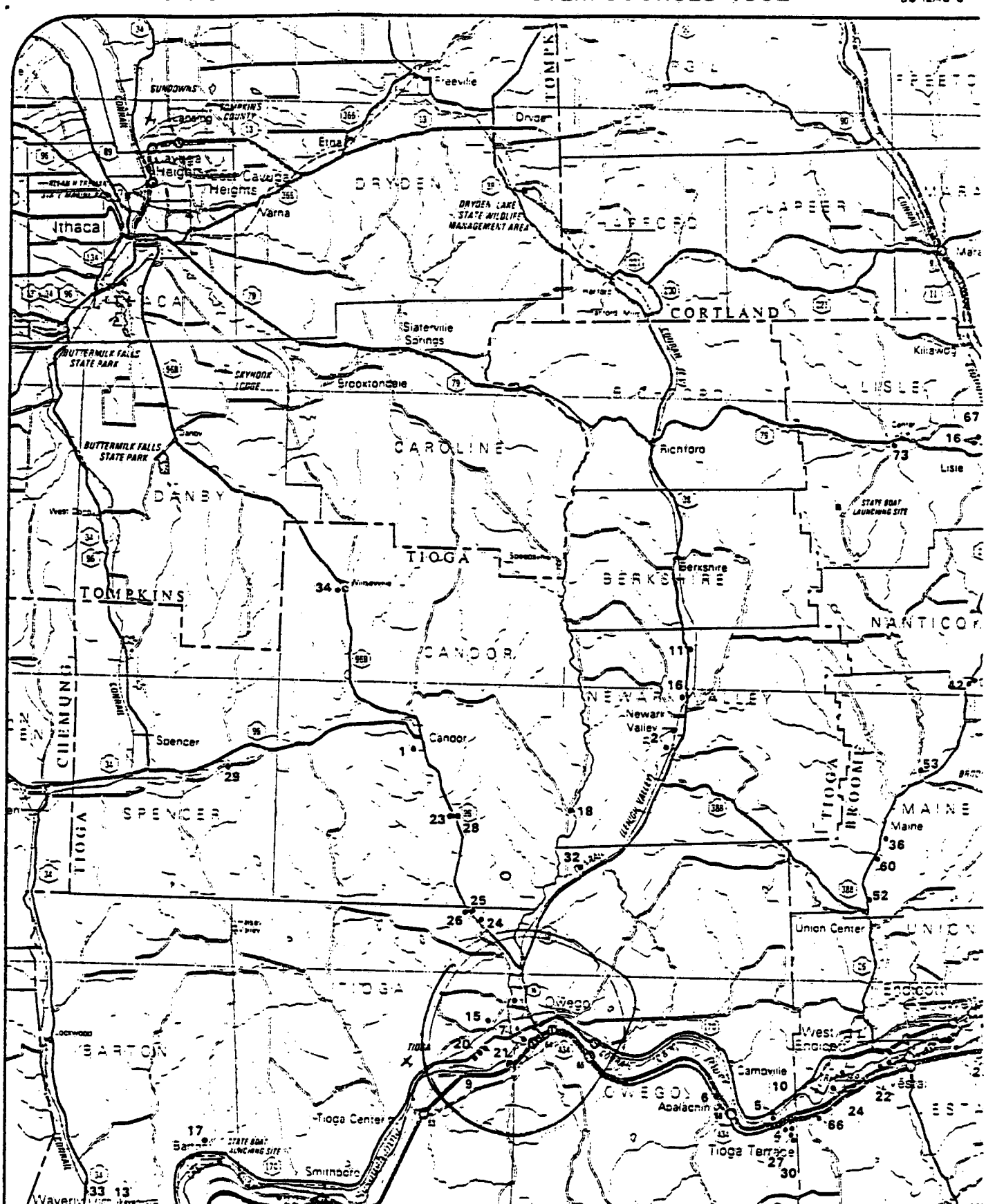
WEHRAN ENGINEERING
CONSULTING ENGINEERS

Job No. _____
Sheet No. _____ of _____

TEST BORING 40-42



LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982



TIOGA COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
1	Candor Village	1000.	Wells
2	Newark Valley Village	1400.	Wells
3	Nichols Water Company	500.	Wells
4	Owego Water District #2	2000.	Wells
5	Owego Water District #3	1400.	Wells
6	Owego Water District #4	1800.	Wells
[redacted]	Owego Water Works	5000.	Wells
8	Waverly Village	5255.	Dry Brook Reservoirs, Wells
Non-Municipal Community			
[redacted]	Airways Inn Trailer Park	60.	Wells
10	Bouton's Trailer Park	40.	Wells
11	Brookside Court	30.	Wells
12	Cedar Terrace Trailer Park	70.	Wells
13	El-Ba Trailer Park #1	100.	Wells
14	El-Ba Trailer Park #2	200.	Wells
[redacted]	Glenmary Estates	50.	Wells
16	Green Valley Mobile Home Park	120.	Wells
17	Hoffman Trailer Park	12.	Wells
18	Jolly J Mobile Home Park	150.	Wells
19	Maple Lane Trailer Court	200.	Wells
[redacted]	Maple Shade Trailer Park #1	45	Wells
[redacted]	Maple Shade Trailer Park #2	40	Wells
22	Nichols Carriage Manor	200.	Wells
23	Owego Contracting Company Inc.	30.	Wells
24	Owego Heights Mobile Home Park	200.	Wells
25	Pebble Hill Mobile Home Park	100.	Wells
26	Pine Tree Trailer Court	30.	Wells
27	Post Mobile Homes	300.	Wells
28	Route 96 Residential Park	99.	Wells
29	Saunders Mobile Home Park	30.	Wells
30	Stephens Trailer Park	120.	Wells
31	Sunset Trailer Park	126.	Wells
32	Valley Park Inc.	200.	Wells
33	Wagon Wheel Trailer Park	60.	Wells
34	Willseyville Mountainside Estates	100.	Wells

5000
+ 60
50
45
40
5195 → 6000 is conservative estimate

OK